

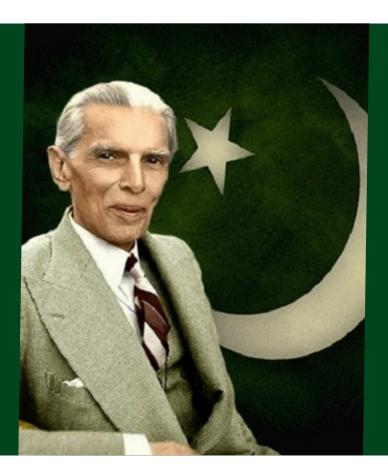
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We welcome you to the University College of Pharmacy's Prospectus for Undergraduate and Postgraduate Programs. This is an important document with information relevant to your programs. You are encouraged to retain this prospectus for future reference. This prospectus is a result of the creative input given by Prof. Dr. Nadeem Irfan Bukhari, Principal College of Pharmacy, University of the Punjab. Mr. Shahid Hameed realized the ideas into this compilation.

**Admission Committee, PUCP** 





### Ouaid-i-Azam Muhammad Ali Jinnah

"I must emphasize that great attention should be paid to technical and vocational education"



## Contents

01	Message from the Vice Chancellor
02	Message from the Dean
03	Message from the Principal
04	Our inspirations
04	Vision and Mission
06	Our Heritage
14	College Facilities
25	Teaching Faculty
26	Pharmaceutical Chemistry
32	Pharmaceutics
43	Pharmacology
49	Pharmacy Practice
54	Pharmacognosy
59	Research Scholars and Visiting Faculty
60	Office Staff
62	Academic Programs
63	Pharm D Programme
64	Allocation of Seats (Pharm-D Morning)
66	Allocation of Seats (Pharm-D Self Supporting Evening)
67	Merit Calculation Formula & Admission Procedure
70	Code of Honor & Welfare
73	General Regulations
76	Examination & Promotion Rules
77	Dues for Pharm.D
79	M.Phil and PhD Programmes
83	Entry Test
85	Facilities Provided
86	Course Work
89	Examination
92	Synopsis
100	Thesis
104	Criteria for Awarding Postgraduate Degrees
106	Code of Conduct and Regulations
108	Dues for M.Phil and PhD Programs



## Message from the Vice-Chancellor

Prof. Dr. Zafar Mueen Nasar

#### Dear Prospective Students:

As the Chief Executive of the oldest and prestigious University, I welcome you to the Punjab University College of Pharmacy where you will find a blend of academic and research excellence, friendly environment, social life and great employment potential.

University College of Pharmacy, established in 1944, is among the most prominent academic units of the University of the Punjab, Lahore and parent institute of nearly all pharmacy institutes in Pakistan and enjoying a leading role for the national pharmacy institutes.

In line with our mission to raise the productivity of our graduates to contribute in a significant way to the national economy, the College of Pharmacy is providing quality education and practical knowledge and preparing its students for high professional and personal standards. The Alumni of this Institution is serving nationally and internationally at higher professional positions in industrial/research organizations and universities.

Punjab University College of Pharmacy is offering undergraduate and postgraduate programs. Here you will meet with the excellent faculty, which is always willing to go extra mile to inculcate knowledge and bring out your best personal traits. It is a place where you will feel a sense of pride on its dynamic and glorious architecture and creative environment.

I am sure that you will join this institution with strong commitment to keep up tradition of this great institute and the University as well.

Wish you the best of luck for your future!



## Message from the Dean

It is my privilege to serve as a Dean, Faculty of Pharmacy, University of the Punjab, Lahore, Pakistan, which is the oldest seat of learning in the region. As a Dean, I welcome you to the Punjab University College of Pharmacy (PUCP). The College is proud to have a number of researchers of national and international repute. The highly qualified faculty is always there to educate students to make them leading Pharmacists to work within the country and abroad. Being a student of this College you will have the opportunity to study with students from all regions of Pakistan and other countries.

This College is the oldest College of Pharmacy in Pakistan and you can call it a mother institute as our alumni have played a pivotal role in the development of other Pharmacy institutes in the country. Here at the College, we are recognized as one of the outstanding Pharmacy education and research institutions in the global village. The graduate and postgraduate programmes of the College are supported by the best and well-equipped laboratories in diverse areas of Pharmacy, such as Pharmaceutical Chemistry, Pharmaceutics, Pharmacology, Pharmacognosy and Pharmacy Practice.

The College has a big library containing more than 20000 books and other Pharmacy resource material of various disciplines of Pharmacy. PUCP is providing on-campus free access to scientific and scholarly material. Free WIFI is available in the College so that students can have access to internet for their day-to-day educational needs.

The Punjab University College of Pharmacy is located at the Mall Road in Allama Iqbal Campus (Formerly known as Old Campus). This red-brick campus is located in the heart of Lahore, which is a beautiful and thriving city, with easy access to a wide range of social, cultural, recreational activities and transport facilities to various areas.

I am certain that Faculty of the college will leave no stone unturned to make you a proud Pharmacist. May Allah Almighty grant you education with wisdom and bright career! Aameen

### Message from the Principal

Prof. Dr. Nadeem Irfan Bukhari

Dear prospective students and parents!

I appreciate your interest in getting admission into the Punjab University College of Pharmacy (PUCP), University of the Punjab, Lahore. The PUCP has developed reputation for imparting high quality Pharmacy education and conducting cutting edge research for last 73 years. Each year, it receives overwhelming number of applications for admission, showing the trust of students and parents.

I would like to extend my and my team's best wishes for your admission into the PUCP, onward education and research, and professional future. Here you will find warm and friendly Faculty and supporting staff. The Faculty has matchless teaching and research experience, majority with PhD degrees who is always willing to go the extra mile to help students learning and beyond. As a result, our students are invariably well-equipped to take the next step in research, further education or profession.

Our laboratories and other facilities are well-equipped. We are proud of our academic and research performance. Besides academics we also emphasize on sports and the arts, and community services. With respect to teaching and learning, our obligation is preparing confident, skillful and competent Pharmacists for the 21st Century. In terms of non-academic areas, we aim to prepare our students as caring, valuable and responsible citizens. Along with classroom activities and research, we provide a wide range of opportunities to our students to participate in. With all of the above traits, my wish is to establish our students as a brand in the professional market for more recognition, preference and employability. For this, we emphasize shaping our culture at the Faculty and student levels. I also aspire a new concept of "learn to earn & to create jobs" in our students under entrepreneurship. Besides above, we also have taken several innovative academic initiatives (detailed in proceeding pages) to strengthen our students capabilities. I am confident that you will put in the best effort and do well during your tenure at PUCP to make the above concepts successful.

I wish you the best again.





## University College of Pharmacy

#### **Our Inspirations**

The inspiration of the Punjab University College of Pharmacy is to provide the Pharmacy education of high quality through excellent courses as approved by Pharmacy Council of Pakistan, Higher Education Commission (HEC) and Inter University Faculty Board (IUFB) constituted by the Chancellor/Governor of the Punjab. The College's faculty comprises of outstanding professionals who are fully committed to guide the students in their acquisition of knowledge and learning. The interaction between teacher and student creates the learning environment which facilitates mastery of professional skills and knowledge. The teaching faculty is friendly and likes interaction with the students for guiding purposes.

Vision To establish as globally known accredited center of excellence for pharmacy education and innovative research, and developing advisory competence in pharmacy-related policies for wellness of society.

Mission The Punjab University College of Pharmacy is committed to produce competent pharmacists for various spheres of pharmacy profession, play role in health policy and enhance national/international collaborative research for sustainable growth, availability and affordability of drugs to the ailing community.

#### Goals

To strengthen the student's scientific knowledge to understand their ethical and profession responsibilities

To provide sufficient professional and practical experience, enabling the students to become valuable pharmacists for the nation

To improve professional, conceptual and human skills required to acquire professional jobs or continue studies and to lead a successful life

To assist students and graduates to take the next level in their profession and life

To make our student's "learn to earn and to create jobs for others"

To establish our students as brand of PUCP in the professional market for more recognition, preference and employability

To maintain the role of PUCP as the leader in the delivery of high quality pharmacy education.

To train pharmacists in the emerging professional areas through continuous education.

To strengthen the network between and to bring together the present students and our graduates through alumni interactions.

To develop effective lines of communication between the college and the PU-affiliated pharmacy institutes.

## We Teach Pharmacy - A life saving profession

Standards define Pharmacy as science that deals with collection, preparation, and standardization of drugs. A professional who, after earning a qualifying degree (currently Pharm D in Pakistan), prepare and dispense prescribed medications is known as the Pharmacist. In Past Pharmacist just mixed and measured drug products from raw materials according to physicians' prescriptions. Now the Pharmacists besides formulating, storing, and providing correct dosages of commercially available medicines from pharmaceutical companies and counseling patients on the use of both prescription and over-the-counter drugs performs several other roles as well. Hence, a Pharmacist must be a resourceful person having comprehensive information about drugs/medicines and related substances and expert in various fields of Healthcare system.

The significance of Pharmacy profession and role of the pharmacist in community and uplifting the healthcare system have been well established and is acknowledged all over the world. The recognition of the profession in Pakistan is increasing day by day. The Pharmacy Profession is well known as a "Life Saving Profession". The main accentuation of the World Health Organization (WHO) in the developing countries is to provide prompt and best means for caring human health. This noble task cannot be achieved without the proper role of a Pharmacist. Emerging of new diseases, advanced technologies, novel delivery systems, individualized and personalized medicine have created more need for the pharmacist. As career, Pharmacy has been exciting and rewarding.

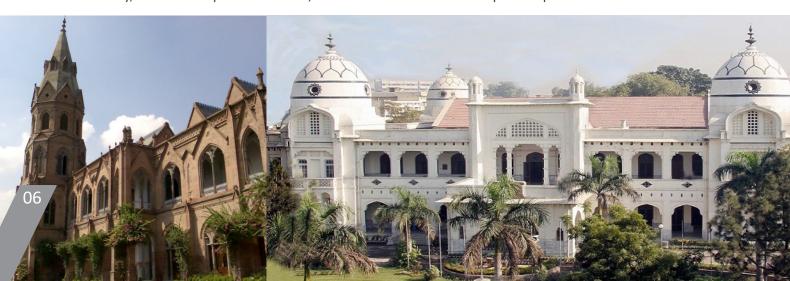
Pharmacists work in a wide range of settings, the prominent being the Retail &Community Pharmacies, Hospitals (Government and Military/Navy), Clinics, Public health services, Ministry of Health (Drug Regulatory Authority of Pakistan, DRAP), Federal as well as Provincial Government (Drug Inspector and Hospital Pharmacist, Drug testing laboratories, DTLs), Pharmaceutical Industry (Quality Control, Production, Research and Development, etc.), Forensic Pharmacy, Drug Distribution System, Pharmaceutical sales and marketing, drug research and development, Universities and several other settings.



### Our Heritage - Our Pride



Pharmacy education was started in the province of the Punjab of sub-continent in year 1944 within Pharmacology department of King Edward Medical College (K.E.M.C), Lahore, the oldest and top ranked institution of medical sciences. Initially to fulfill the need of profession, K.E.M.C. offered a three year degree course along with a 2-year diploma tracked by 3-months of practical training in Pharmacy. Later on due to its wider prospects the Department of Pharmacy was undertaken by the Punjab University, Lahore. The University of the Punjab, Lahore established as Punjab University College on 11<sup>th</sup> Jan 1870 achieved the status of university in 1882. It stands fourth in age among the leading oldest universities of the subcontinent. In the year 1948 an independent Pharmacy Department was established in the University of the Punjab University, Lahore in the present location, what is now known as Allama Igbal Campus.



Initially at the University of the Punjab, Pharmacy was taught in various institutions in and out of the University. The Physiology and Pharmacology Departments of King Edward Medical College helped the department of Pharmacy to teach subjects of Physiology and Pharmacology, the subjects of Pharmacognosy and Pharmaceutical Chemistry were taught in Department of Botany, Government College, Lahore and in the Department of Chemistry, University of the Punjab, Lahore, respectively. Pharmaceutics however, was taught at the present premises. With the advent of time, Pharmacy education as well as the department kept progressing. Every head of the Department has contribute in its development and we are proud of our present which is the outcome of our glorious past. In 1958 all the subjects were taught in the Department of Pharmacy. With the development of well-equipped research laboratories and additional facilities, the university started master and doctoral degree programmes in pharmacy in 1966 and 1974 respectively. Soon after, the M. Pharm and PhD program was started in the disciplines of Pharmaceutical Chemistry, Pharmaceutics, Pharmacology and Pharmacognosy. The two year M. Pharm program was converted to two year M.Phil program in 1978.

The Department was up-graded to the level of faculty in 1979 and the three year bachelor course was transformed into four year degree program, another major milestone in the history of Pharmacy. Later on in 2003, its status was further uplifted to the level of College and it is now known as Punjab University College of Pharmacy. Thereafter, four year bachelor of pharmacy was changed to five year Doctor of Pharmacy degree. First regular PhD program was announced in 2007 and now since 2009, every year PhD admissions are regularly completed. In year 2014, M.Phil in fifth discipline of pharmacy namely, Pharmacy Practice was initiated. In the same year, M.Phil evening program for four disciplines, Pharmaceutical Chemistry, Pharmaceutics, Pharmacology and Pharmacognosy was started on demand of the working Pharmacists. The College had done well with many new initiatives to enhance student learning. In this connection we have commenced classroom-upgrading project. One classroom has already been upgraded in 2016 and the remaining will be done level by level. You will enjoy the upgraded Lecture Theater 1.

The College's own web page was launched on October 17, 2017. The site was developed by PUCP ICT staff under the supervision of Prof. Dr. Nadeem Irfan Bukhari.





#### Recognition by Pharmacy Council of Pakistan

The Punjab University College of Pharmacy is the first institute accredited by the Pharmacy Council of Pakistan since its establishment. Pharmacy Council of Pakistan has recognized University College of Pharmacy and after its last visit appreciated the College. The Pharmacy Council of Pakistan in its letter addressed to the Principal & Dean has written the following remarks:-

"As you know, a team of Pharmacy Council of Pakistan, had visited your Department of Pharmacy on August 11, 2014 for the purpose of granting NOC to start and conduct the Pharm-D Program. The report of the said Team was discussed in the recently held meeting of the Council, wherein, it was resolved to renew the recognition of the College for another term of two years. Kindly accept my felicitation on this renewal of recognition, which became possible with the support, co-operation and efforts rendered by you and your colleagues in the College. Hopefully this co-operation will also be forthcoming in future. The Council is confident that under your vision and dynamic leadership, the College of Pharmacy will achieve its goal to become a leading institution".

#### ISO Certification

The International Organization for Standardization (ISO), an independent, non-governmental membership organization and the world's largest developer of voluntary international standards, has certified the laboratories of Punjab University College of Pharmacy to provide authentic analysis reports thus becoming the first Pharmacy institute of any public sector University in Pakistan to achieve this milestone. The ISO, after strictly examining administrative affairs, research activities, equipment of laboratories and expertise, has awarded ISO 9001-2008 certification to the College. After this certification, the reports generated from the labs will be considered certified and prepared as per international standards.

#### **Quality Policy of College**

The Punjab University College of Pharmacy was founded as a place of useful learning in the field of Pharmacy. It provides quality education and skills to all its students, regardless of their backgrounds, thus inspiring them to develop their skills at the fullest. The College is committed to improve the quality of pharmacy education in Pakistan through updated courses conducted in an educative and friendly research based innovative environment through Quality Management System.



## Our Present - Cause of Our Elation

We have all infrastructure, excellent facilities and highly qualified faculty necessary to meet our vision, mission and objectives. The College is promoting excellent teaching and research programs but never more so than today. With the distinctive teaching and cutting edge research, The College is at the forefront of teaching and research. It has the following laboratories, equipped with sate of art instruments for Pharm D practical, computing and postgraduate research.

- 1. Pharmaceutics and Pharmaceutical Microbiology
- 2. Pharmaceutical Chemistry
- 3. Pharmacology & Physiology
- 4. Pharmacognosy
- 5. Quality Management
- 6. Phytochemistry/Medicinal Plant

### Historic Academic - Industry linkage

A Memorandum of Understanding (MoU) between Pakistan Pharmaceutical Manufacturing Association (PPMA) and Punjab University College of Pharmacy, University of the Punjab, Lahore has been singed. The honorable Vice chancellor of the University of the Punjab, Lahore and the Chairman PPMA Signed the MoU on August, 2016. This first ever MoU for any Pharmacy Institute will open a new vista for Pharmaceutical Industry and Academia. Both institutions will collaborate in developing research methodologies & technical collaborations. Industry will be developing industrial Pharmacists from the interested Pharmacy students studying. Training sessions will also be conducted in Pharma Industry to make students experienced and practical.

**30**C



Sadhana Dahal

The homely environment in PUCP with concern, care and love never made me feel isolated. I feel that PUCP has groomed me a lot to work for pharmacy profession and as a whole. for the man kind. I think my study and stay in PUCP has make me acquainted with greater vision for life and has increased the horizon of my knowledge.

Completing my Pharm. D program from PUCP is an honor for me. I have an amazing experience. Encouraging environment here supported me to fullfil my dreams. I am thankful for the exemplary demonstration of patriotism and loyally to the aspiration and binding interest of university. I pray that efforts, collectively and individually may be rewarded.



Jasmin Etemadi



### Our Future - Even More Brighter

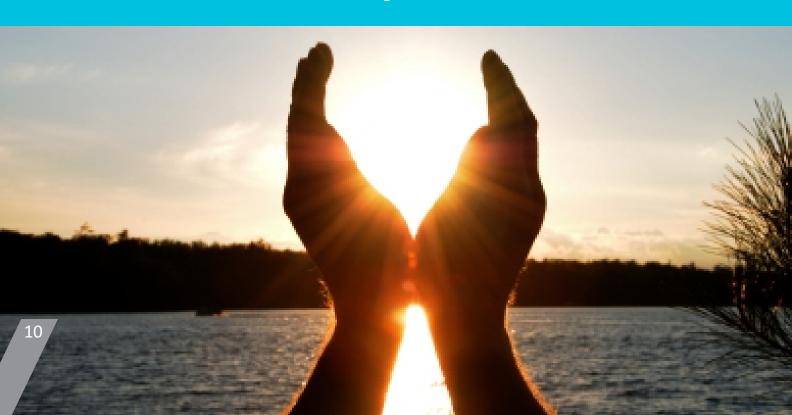
We have planning for diverse aspects and areas for bringing best out of our students in Punjab University College of Pharmacy. From this year and onward, we will be attempting to establish our graduates as brands of PUCP for more preference in market for which we will implement our concept starting from the students of first prof. We will be conducting more seminars, practical training sessions and interactions of students with the renowned Pharmacy professions for training of our students. We will also be emphasizing on training and encouraging our students for entrepreneurship—implementation of a concept of "learn to earn and to create jobs". The College is planning to start the long- and short-term Diploma and Certificate courses for Pharmacy students and health Professionals. We want to increase our partnerships with the recognized National and International research centers. The College will soon be signing MoU with some renowned foreign university for collaborative research.ef

The Industrial Pharmacy lab will be further developed and a couple of new research laboratories have been planned. A Museum and Drug Information Center have been planned for the benefits of students and professionals engaged in medical and Pharmacy Professions. A "Medicinal Plant's Herbarium" and "Natural Product Informative Center" (NPIC) of medicinal plants will

also be developed in the near future in the Pharmacognosy discipline. The establishment of herbarium and NPIC will provide information about Indigenous Medicinal Flora and other natural products to Herbalists, Physicians, Hakims, Homoeopaths and other related professions.

The following additions will be made to the University College of Pharmacy:

- > Laboratory of Nanomedicine and tissue engineering.
- > Centre of Excellence for Pharmaceutical Research.
- > Centre for Pharmacological and Toxicological studies of Indigenous Medicinal Plants.
- > A Pharmacokinetics/Bioavailability Research Group has been planned to be established.
- > Establishment of model Community Pharmacy.
- > Establishment of model Cosmetics Manufacturing Unit.



## University College of Pharmacy -A right choice The Punjab University College of Pharmacy has the following distinguished features – a reason for being the

preferred Pharmacy institute.

#### The oldest seat of learning - a proud heritage

The College is the oldest, prestigious and globally recognized Pharmacy institute of Pakistan, which provides the best talent to the nation. It is the first accredited institution by the Pharmacy Council of Pakistan under the Pharmacy Act. It is a pride for us that the majority of the major country's public or private Pharmacy institutes are headed by the alumni of the University College of Pharmacy, University of the Punjab, Lahore. The students of the College are among the teaching faculty of world's top ranked pharmacy institutes.

#### Academic excellence

The Punjab University College of Pharmacy has highly, and foreign qualified and well experienced teaching faculty. Currently, the teaching faculty comprises a unique blend of our teachers, we and our students – the three generations in the College. Some members of the faculty are working as the visiting professors and deliver lectures to the Universities abroad which has reflected the potentials of our faculty members. The teaching faculty of the College produces highly competent, skilled and well trained Professionals to provide quality Healthcare services to the community.

#### Research excellence

The University College of Pharmacy well known for quality research in all the four disciplines of Pharmacy. The college provides a comfortable and strong research environment. Last year, our three outputs from the postgraduate research received the National Innovation Award in an event organized by Pakistan Science Foundation, Islamabad, Pakistan Scientific Research, Lahore and University of the Punjab, Lahore, affirming an innovative research in the institute. Few patents are also on the credit of our staff members. Every year,



#### Inspiring teaching and research facilities

Modern and innovative methods and tools of teaching and training are used at Punjab University College of Pharmacy to provide better personnel in all the fields of pharmacy. Well equipped laboratories, air conditioned spacious lecture theaters, modern library and internet facilities are available in the College.

#### Wide range of Campus activities

Punjab University College of Pharmacy periodically holds Sports, Debates, Seminars and Fun Fairs.

#### National and international collaboration/partnerships

The College of Pharmacy has successfully established a collaboration with National Pharmaceutical Industry and the public/private teaching hospitals for research on the projects related with pharmaceutical formulation and on the social aspects of pharmacy, respectively. This is our pride that our staff is also acting as external supervisors of the research students enrolled in overseas pharmacy institutes and research centres.

#### Promoting commercially benefiting research

We understand the importance of the productive research beneficial for commerce. The collaboration with our National Pharmaceutical Industry has provided a platform for carrying out research beneficial for commerce. During last years, we are trying to serves the needs of the pharmaceutical industry and in future, beside the basic research we will promote the commercialization of our research excellence.

#### Career counseling service for the guidance of students

The dedicated teaching faculty provides counseling service for the guidance of students under the umbrella of Job Placement and Career Counseling Cell of the College.



## Location - The easy & wonderful access

The University College of Pharmacy is situated in Allama Iqbal Campus as beautiful building constructed with unique red bricks in the heart of Lahore city at the Western end of Shahra-i-Quaid-e-Azam (previously known as the Mall, Lahore). Shahra-i-Quaid-e-Azam is a beautiful road running through the splendid off white-coloured historical buildings from the British Era. The campus is in located in the neighborhood of Anarkali Bazaar, Lahore Museum and the City Hall Lahore.

Lahore is one of the oldest and second largest city of Pakistan which is rich and famous for its gardens, cultural and historical heritage. The city has direct air, rail and road links with famous cities of the country as well as South East, South West Asia, Europe, the U.S.A. and Canada.

The College of Pharmacy has an easy access through University and public transport (Lahore Transport Company, LTC), Metro Bus and the Under Construction Metro train from the city and surrounding areas. It is a the walking distance from the Secretariat stop of the Metro Bus Service. A shuttle service operates from Allama Iqbal Campus to Quid-e-Azam Campus and vice versa.

There are a plenty of recreational and shopping spots around the outside of Campus, Lahore Old City, the famous Anarkali Bazaar and Food Street, to name a few. On top of all, the best recreational locations can be appreciated by the Sight Seeing Lahore double decker bus service that passes by the Campus.



## College Facilities - For Learning Facilitation

#### Library

College Library is self sufficient in providing textbooks, reference books and scientific research journals in various disciplines of Pharmaceutical Sciences to the students and professionals. A facility of computer Lab and Internet is also provided to the students. Dr. Hamid Saeed is the In-charge of library.

#### Research Labs

College Research labs are well equpped with the Modern and State of the art instruments necessary for Postgraduate research. Our labs have Atomic absumption spectometer, FTIR, Dissolution with auto sampler, HPLC, DSC etc. besides the basic laboratory instruments. Prof. Dr. Khalid Hussain is the in-charge of Research Labs.

#### Computer Lab

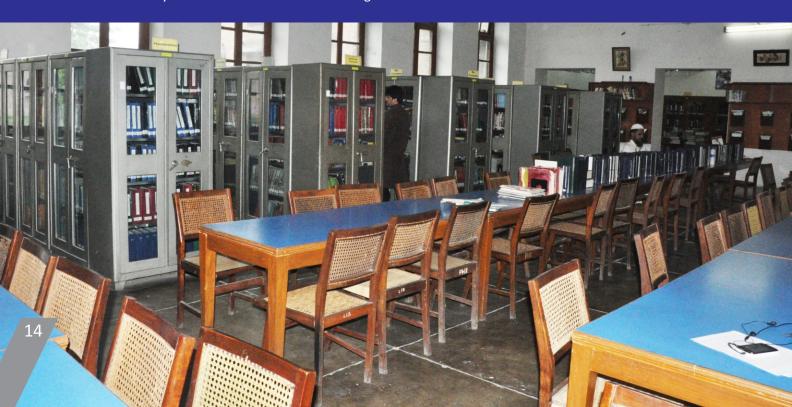
Two Computer Labs, one for undergraduate and other for postgraudate students. is available in the College. The postgraduate computer lab with multi-media and digital library facility is available in the college. Prof. Dr. Nadeem Irfan Bukhari is the officer In-charge of Computer Lab.

#### **Animal House**

The College has fullfledged and fully equiped animal house to facilitate the postgraudae research involving animals. Currently rabites, rats and mice are available in the animal house.

#### Pharmacy Health Club

The Club organizes First Aid Training and Blood Donation Camp's in collaboration with Punjab Red Crescent Society. Miss Rahat Shamim is the In-charge for this Club.



#### **Transport**

University buses ply between Quaid-i-Azam Campus and Allama Iqbal Campus and in certain specified parts of city to provide comfortable conveyance to the students. The Punjab University College of Pharmacy owns two mini busses which are used to for hospital and industrial trips.

#### Hostel Accommodation (For Morning Students only)

Hostel accommodation is available for students at both of the University Campuses. A separate application for the hostel accommodation is to be submitted to the College Principal, along with a medical certificate from one of the following laboratories showing that the candidate is free from any Hepatitis Viruses.

- 1. Punjab University Health Centre, Lahore.
- 2. Lahore Medical Laboratories, Lawrence Road, Lahore.
- 3. Shaukat Khanum Memorial Cancer Hospital, Lahore.
- 4. Lahore Chaughtai Laboratory, Lahore.
- 5. Qureshi Laboratory, Lahore.

Dr. Hamid Saeed is the In-charge of the hostels accomodation.

Due to large number of students in variety of study programs, the hostel accommodation will be provided on the basis of availability of Hostel.

#### **Tutorials & Seminars**

The tutorial meetings and seminars are held regularly to provide students with an opportunity to discuss academic, professional and social problems. The seminars and group discussions are a regular feature of the curriculum.



#### Internship Scheme

The students of fourth & final professional classes undergo six to eight weeks practical training in one of the following fields, as has been prescribed in the curriculum,

- 1. Hospital Pharmacy
- 2. Clinical Pharmacy
- 3. Industrial Pharmacy
- 4. Drug Analysis and Quality Control
- 5. Marketing and Retail Pharmacy

This Activity is carried out by our Job Placement and Career Counseling Cell.

#### Student Identity Cards

Identity cards are issued to the College students on payment of the dues at the time of admission. It is compulsory for each student to display the card during his/her stay in the College. If the identity card is lost, students should immediately report to the Principal for the duplicate card on payment.

#### Scholarships

Scholarships offered to the students include.

- (I) University Merit/Needy Scholarships awarded by the University of the Punjab
- (ii) Fauji Foundation Scholarships
- (iii) Pakistan Technical Assistance Scholarship for the foreign students by the Government of Pakistan
- (iv) Benevolent Fund Scholarship
- (v) President Scholarship by the Ministry of Health, Islamabad for one student on the basis of cumulated highest academic records during the first four years of Annual Examinations
- (vi) Government Internal Merit Scholarship
- (vii) Chief Minister Punjab Educational Endowment Fund (PEEF) Scholarship
- (viii) Babar Ali Foundation (Syeda Mubarik Begum Scholarship Scheme)
- (ix) Pakistan Bait-ul-Mal Education Scholarship
- (x) Consolidated Chemicals Laboratories Executive Scholarship awarded to six deserving students (three from Morning & three Evening) for Pharm. D Program.

#### Gold Medal

- (I) Dr. Mehboob Rabbani Memorial Schazoo gold medal is awarded yearly to a student who stands first in Pharm D. Final Professional 1st Annual Examination.
- (ii) Javaid A. Shaikh (C.C.L.) gold medal will be awarded every year to a student who stands first in the Pharm. D. 4th Professional 1st Annual Examination in the subject of Industrial Pharmacy.
- (iii) Ch. Fazal Din gold medal is awarded every year to a student who stands first in M. Phil. Part-11 (Pharm. Chemistry) 1st Annual Examination.
- (iv) Nawaz Memorial gold medal is awarded yearly to a student who stands first in M. Phil. Part-11 (Pharmaceutics) 1st Annual Examination.

#### **Study Tours**

Study tours are arranged for Doctor of Pharmacy 2nd and 4th Professional classes for the collection of medicinal plants and to visit various pharmaceutical industries respectively. M. Phil, students also undertake field work and study tours. A substantial grant (only for Pharm.D programs) is allocated by the university every year to cover up about 50% of the expenses of these study tours. Remaining expenditures are meet by the touring students through their own contribution.

#### (ii) Students Societies and Clubs

The following student societies have been established for organizing extracurricular activities under the supervision of the College Principal, Student Advisors and the Faculty.

(a)	Character Building Society	(CBS)
(b)	Pharmacy Education Counseling Club	(PECC)
(c)	Literary Society of Pharmacy	(LSP)
(d)	Debating Club	(DC)
(e)	Pharmacy Art Club	(PAC)
(f)	Photographic Society	(PS)
(g)	Student Aid Forum	(SAF)
(h)	Green PUCP Society	(GPS)
(I)	Pharmacy Event Management Society	(PEMS)
(j)	Pharmacy Dramatic Club	(Phunkar)
(k)	Pharmacy Movies Club	(PMC)



#### (iv) Sports

Sports are given due importance in the College and the students are encouraged to participate actively in the sport activities. These include indoor sports in the College as well as inter-departmental outdoor sports of the University. The sport activities are supervised by the nominee by the Principal College of Pharmacy from among the faculty members.

#### (v) Alumni

To foster the social interaction and sharing of knowledge and practical issues with the graduate pharmacist of the College periodic meetings and annual dinner for the alumni is organized regularly. Prof. Dr. Khalid Hussain and Dr. Amjad Hussain look after the Alumni of the College.

The facility specific to M.Phil and PhD. are given under respective Sections.



## New Programs - Innovative initiatives









# Knowledge Drive

A PUCP's new initiative under the name of "kDrive" with the intent of introducing Innovation, Excellence and Practice. Under this initiative series of seminars, workshops, webinars and events will be arranged to strengthen the knowledge of our students and graduates curricula and beyond.



## New Programs - Innovative initiatives



A PUCP's new initiative under the name of Industrial Practisim (Practice simulation)": A new concept for 4th prof. with external lecturing by industrial experts, integrated with joint faculty/expert-supervised industrial internship.

#### Tutor - Tutee System

Recently we have enacted the Tutor-Tutee system and redefined the roles of the tutors as:

#### **Roles of Tutor**

- 1. Interaction with their tutees and guide them on academic/examinations matters.
- 2. Discussion of any factor hindering studies (i.e. personal, psychological, behaviourial and financial issues).
- 3. Discussions positively on the policies of the College authorities regarding academics and students.
- 4. Handling of the complaints from tutees.
- 5. Guidance of students for better performance and confidence.
- 6. Monitoring the regularity of classes and attendance of the tutees.
- 7. Monitoring the studies and completion of syllabus.
- 8. Keeping their tutees motivated.
- 9. Keeping the records of syllabus coverage and teaching issues for submission to the Principal / Dean Office.



## **Publications - Our Promotion**

Coden: Pak. J. Pharm. 20-23 (1&2) 2007-2010 (Printed in 2011)

Pakistan Journal of Pharmacy



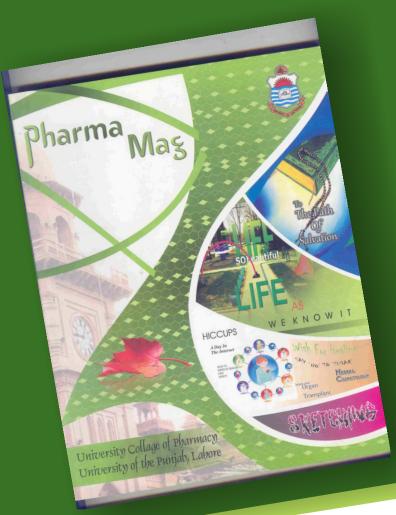
### University College of Pharmacy University of The Punjab

Allama Iqbal Campus, Lahore, Pakistan Tel: +92 42 99211616, Fax: +92 42 99211624 E-mail: pjp.pharmacy@pu.edu.pk

# Pakistan Journal of Pharmacy

The Pakistan Journal of Pharmacy is an official publication of the PUCP, University of the Punjab, Lahore, Pakistan. The journal is peer-reviewed journal and being published biannually since 1979. The aim of the journal is to preserve, promote and present research work in any of the fields of Pharmacy or experimental medicines. The Journal also publishes reviews, usually by invitation and is available for publication of pharmaceutical symposium/conference proceedings.

## Publications - Our Promotion



Pharma Mag

Pharma Mag is a multi-lingual (Urdu, English) magazine published annually by the pharma Mag is a multi-lingual (Urdu, English) magazine published annually by the pharma Mag is a multi-lingual (Urdu, English) magazine published annually by the pharma of the principal, PUCP. The Principal Puch States Puch S



## Publications - Our Promotion



## Pharma Bulletin

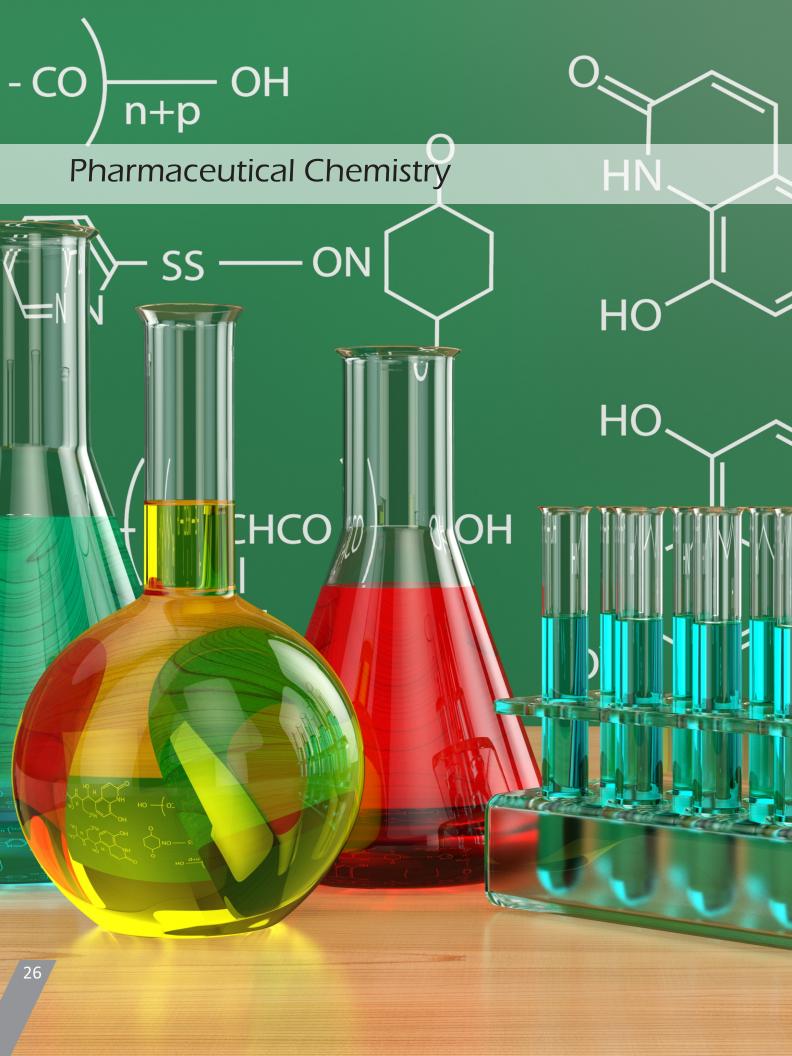
Pharma Bulletin is published annually and contains the newsworthy articles of interest from the faculty and students. It also presents new development in the field and portrait of the College, it faculty, and programs. In future, we want to dedicate this Bulletin for more articles about the College and its faculty, College history, and issues related to the Pharmacists community. We always welcome suggestions for improvements and use the candid suggestion.











Pharmaceutical Chemistry



Dr. Khalid Hussain
B. Pharm., M. Phil. (Pb.), R.Ph.
Ph.D. (Malaysia)
Professor & Dean Faculty of Pharmacy

Prof. Dr. Khalid Hussain completed undergraduate and postgraduate degrees from the University of the Punjab, Lahore, and thereafter he worked in private sector at different positions. During his job in private sector, he gained hand-on experience in preparation of gargles / mouthwashes, tooth pastes, TPN, dialysetes and catheterization. He got the Commonwealth Scholarship for PhD studies and joined University Sains Malaysia, Penang, Malaysia to pursue his PhD. This PhD work produced one patent. He has published more than 85 papers in national and international journals. He has supervised a number of M. Phil and PhD students. Currently, he is working as Professor of Pharmaceutical Chemistry and Dean, Faculty of Pharmacy, University of the Punjab, Lahore. His research areas are Development of analytical methods, Synthesis, Bioassay-guided isolation, sturcture activity relationship and Standardization of alternative medicines. Dr. Khalid is internationally renowned researcher and his name has been included in "Top Hundred Scientists of World". He is the HEC-approved supervisors. He has the honour of being the president of Pakistan Pharmacists Association (Punjab) for the term of 2014-2016.



Pharmaceutical Chemistry

Dr. Abida Latif
B. Pharm., M. Pharm. (Pb), R.Ph.
Ph.D (Pb).
Assistant Professor & Head of the Section
Girls Student advisor



Dr. Abida Latif earned her B.Pharm and M.Pharm from University of the Punjab, Lahore. She joined pharmaceutical industry before joining Punjab University College of Pharmacy, University of the Punjab, Lahore as Lecturer. Soon after her joining, she was selected as Assistant Professor in Pharmaceutical Chemistry Section. Her passion for teaching led her to persuade her PhD, which she did from the University of the Punjab, Lahore. She is heading the Pharmaceutical Chemistry Section. The areas of her research are folklore medicines, phytochemical analysis, standardization and Pharmacokinetic studies of herbal medicines. Several M.Phil and PhD students are working under her supervision. She has the credit of publishing several research publications in high impact factor journals. She has presented her research work in National and International conferences and symposia.



Pharmaceutical Chemistry

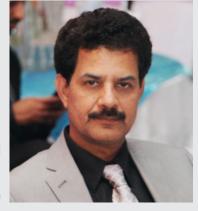


Dr. Muhammad Islam B. Pharm., M. Phil. (Pb), Ph.D (Pb), R.Ph. Assistant Professor (on contract)

Dr. Muhammad Islam did his graduation and post graduation – M.Phil and PhD from University of the Punjab, Lahore. He started his teaching career from a reputed private sector Pharmacy institute. He joined PUCP as Lecturer and now he is working as Assistant Professor in the subject of Pharmaceutical Chemistry. Up till now he has 14 years of teaching and research experience. He has already supervised three M. Phil students and currently supervising eight M. Phil. and two Ph.D. students. He has published 14 research papers in well reputed national and international journals. His areas of interest are Organic Chemistry and Medicinal Chemistry.



Pharmaceutical Chemistry



Mr. Sohail Amjad B. Pharm., M. Phil. (Pb), R.Ph. Lecturer (on contract)

Sohail Amjad did his Pharm D and M.Phil Pharmacy (Pharmaceutical Chemistry) from the University of the Punjab, Lahore. Before joining Punjab University College of Pharmacy as Lecturer, he worked in several capacities. He is PhD scholar in University of the Punjab, Lahore and working in Pharmaceutical Chemistry. According to him, teaching makes him happy and he feels a sense of fulfilling. In his opinion, a best teacher has a blend of a passion for teaching, concern for students, patience, tolerance, and outstanding knowledge. He is excited about putting all he has learned to use and becoming an active participant in class room. He is also a good researcher and has couple of paper published in journals with impact factors.



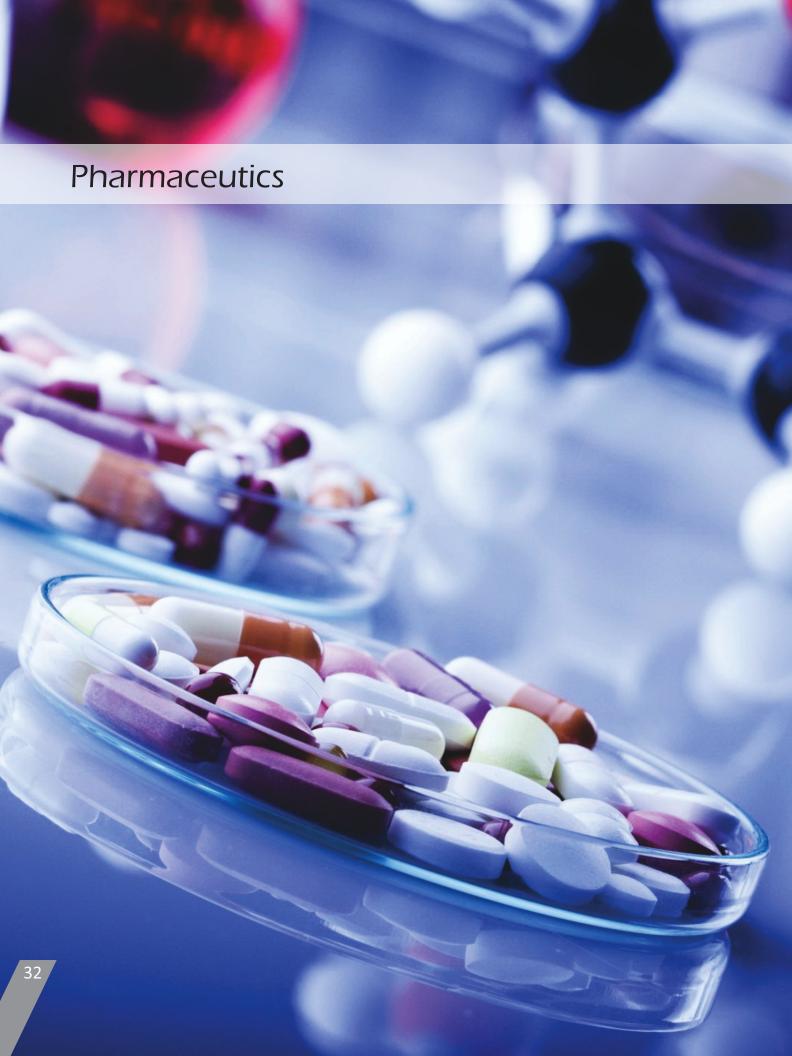
Pharmaceutical Chemistry



Ms. Fakhra Zahid Pharm D., M. Phil. (Pb), R.Ph. Lecturer (on contract)

Mrs. Fakhra Zahid is working as a Lecturer in University College of Pharmacy, University of the Punjab since March, 2014. Previously, she worked for two years as research officer in same Institute. Fakhra did her B.Pharm, Pharm-D (one year condense course) and M.Phil Pharmacy in Pharmaceutical Chemistry from the University of the Punjab. Lahore. She is doing her PhD in the same discipline from University of the Punjab. One research paper has been published in a peer-reviewed journal. Here areas of interest are: Medicinal Chemistry, Analytical Chemistry and Drug Design.





### **Pharmaceutics**



Dr. Nadeem Irfan Bukhari B. Pharm., (G.U.), M.phil. (Pb), Ph.D. (Malaysia) R.Ph. Professor & Principal

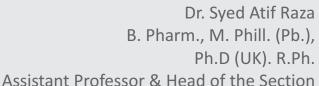
Prof. Dr. Nadeem Irfan Bukhari joined University College of Pharmacy, University of the Punjab, Lahore in 2001. He held teaching positions with International Medical University (IMU), Kuala Lumpur, Malaysia, University College Sedaya International (UCSI), Kuala Lumpur, School of Pharmacy and the Islamia University of Bahawalpur, Bahawalpur. Before, he worked as Radiopharmacist & Hospital Pharmacist at Shaukat Khanum Memorial Trust Cancer Hospital & Research Centre, Lahore.

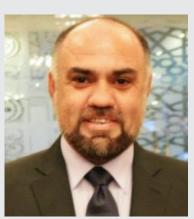
At IMU and UCSI he was also involved in the Pharmacy programs of University of Strathclyde, Glasgow, UK, and Curtin University of Technology, Australia. He published more than 88 research papers in journals of impact factors and authored or coauthored a couple of professional books. As a member, Panel of Experts, Ministry of Health, Government of Pakistan, he provided consultation on the matters related to Pharmaceutical industry. He delivered invited lectures at international institutions including University College London, London, UK. He has been visiting professor at DeMont Fort University, Leicester, UK. His students have accomplished PhD degrees from DeMont Fort University, University of Otago, New Zealand and University of the Punjab, Lahore. Areas of his research are: Pharmaceutical Technology, Nanotechnology, Liquid/Semisolid Matrix Technology, Artificial Intelligence in Formulation Design, Innovative Deliveries, Bioequivalence, Bioavailability, Pharmacokinetics, Pharmaceutical statistics, PK-PD modeling, and Pharmacoecnomics.

Dr. Nadeem is recipient of a research fellowship from University College London, London UK. He obtained several international research grants and sponsorships from IMU and World Health Organization-Health Action International. He obtained B. Pharm and M.Phil degrees from Gomal University, Dera Ismail Khan and University of the Punjab, Lahore, respectively and of PhD from University Sains Malaysia, Malaysia. Based on his performance during his B.Pharm, he was awarded President's Talent Scholarship. He remained to be a cartoonist whose work had been appeared in leading National Urdu and English dailies for about 10 years.



**Pharmaceutics** 





Dr Syed Atif Raza, Assistant Professor and Head of Pharmaceutics Section is among the senior faculty at Punjab University College of Pharmay (PUCP). Dr Atif did his B.Pharmacy in 1992 and M.Phil (Pharmaceutics) in 1996 with Gold Medal from University of the Punjab, Lahore. In 2014 he earned his PhD in Pharmaceutical Sciences from University of Strathclyde, Glasgow, United Kingdom. During his academic career he got various National fundings, merit scholarships, distinctions and awards. Dr Atif has a vast administrative experience at various levels. He has been involved in GMP, GSP and GLP implementation practices in Pharmaceutical Industry as per International requirement in close with DRAP and WHO. He has more than 18 years experience of Post-graduate teaching and research, development of curriculum, establishment of new Departments & Colleges, internal auditing, Director, External Linkage and Research, member of various College committees like time table, procurement, admissions and etc. He played a pivotal role in bringing Pakistan Pharmaceutical Manufacturing Association to sign a MoU with Punjab University College of Pharmacy. He is involved in a variety of industry projects and collaborates with academic partners within Pakistan and Internationally, and is member Board of Studies at various Pharmacy institutes. He is the reviewer for journals and is external examiner for Pharmacy Institutions. He has over 25 publications in multi-disciplinary journals with high impact. He also presented his work at national and international conferences, seminars and workshops. Dr Atif has experience of supervising PhD students and MPhil research projects. His area of research is Pharmaceutical Technology, Pharmaceutical Care and Rational use of medicine. Before his current appointment, Dr Atif was a Specialty Business Associate at Aventis Pharmaceutical (Pvt.) Ltd.



### **Pharmaceutics**



Dr. Amjad Hussain B.Pharm. (Gold Medalist) M.Phil (Pb.), Ph.D (UK). R.Ph. Assistant Professor Student Advisor

Dr. Amjad Hussain did his Pharmacy from University of the Punjab in 2002. He stood on top positions in all four Professionals and awarded with University Gold Medal for standing first in B.Pharm Examination 2002. He started his career from industrial pharmacy and also worked in a renowned retail pharmacy. After this he worked in Children's Hospital and Institute of Child Health Lahore where he performed his duties as Hospital Pharmacist/Purchase Officer and used to teach in the School of Allied Health Sciences. He joined health department, Government of the Punjab in 2004, as regular employee after qualifying through Punjab Public Services Commission. In this department he worked as Drugs Inspector and Hospital Pharmacist. Meanwhile, he did his M. Phil in the subject of Pharmaceutics from University of the Punjab and joined University as part time Lecturer in 2007. He was selected as Lecturer at University of the Punjab, in 2009 and promoted to Assistant Professor BPS-19 in 2012. He did his PhD in Pharmaceutical Technology, from DeMont Fort University (DMU), Leicester, UK. His research area is innovative, where he worked in the mechanistic understanding of solubility and dissolution rate enhancement of poorly soluble drugs. He used the latest technologies of Terahertz (THz) and Dielectric Spectroscopy in his research work and published many research articles in the renowned international journals of his field of study. He is HEC approved Supervisor and currently supervising two PhD and eight M.Phil students. His research areas are milling/co-milling, solid dispersion, solubility and dissolution rate enhancement, calorimetric analysis, Terahertz spectroscopy, dielectric spectroscopy, process analytical technologies, solid state properties, amorphization and drug development. More than 15 students have completed their M.Phil under his supervision and many research projects are underway.



**Pharmaceutics** 





Dr. Fatima Rasool did B. Pharmacy and M. Phil from the Islamia University of Bahawalpur (IUB), Bahawalpur. She worked as Hospital Pharmacist at Bahawal Victoria Hospital, Bahawalpur from 2004-2006. She taught and conducted research in IUB, Bahawalpur and Hamdard Institute of Pharmaceutical Sciences, Islamabad. Later on, she was awarded Indigenous Ph.D. Fellowship from Higher Education Commission of Pakistan and completed her PhD. degree in Pharmaceutics from IUB. She was nominated by HEC for award of UNESCO- L'OREAL scholarship for young women in Life Sciences for the year 2009. In the same year, she joined University of the Punjab, Lahore as Lecturer and promoted to Assistant Professor in 2012. She did Post Doctoral Research at Lancaster University, Lancaster, UK in 2014-2015. She was also appointed as honorary/visiting faculty at Lancaster University, Lancaster, UK for this period. To her credit she holds more than 30 publications in international journals with impact factor. She has presented many of her research work in International Conferences held in Pakistan, Brazil, America, England, Turkey, Argentina and United Arab Emirates. She earned several travel grants from University of the Punjab and HEC for oral and poster presentation of research papers in International meetings. She has been a member of American Association of Pharmaceutical Scientists (AAPS) and International Society for Pharmacoeconomics and Outcomes Research (ISPOR). Her research interests include Development and Characterization of dosage forms, Bioavailability and Pharmacokinetic Studies, Bioequivalence studies and development of in-vitro and in-vivo correlation focusing upon development of effective, safe and stable drugs with great emphasis upon the effects of absorption promoters and other formulation related factors. She is HEC approved PhD supervisor as well.



**Pharmaceutics** 



Mr. Imran Tariq B.Sc, B.Pharm, M.Phil, R.Ph. Assistant Professor (On Leave)

Imran Tariq, joined University College of Pharmacy, University of the Punjab, Lahore as Aisstant Professor in Pharmaceutics. Before joining PUCP, he worked in the University of Lahore, Lahore. He did his B. Pharmacy and M.Phil (Pharmaceutics) from University of the Punjab, Lahore. He is keenly interested in doing research and is actively involved in research projects in his field of interest. As a result, he has published about 25 papers in international Journals of good repute and with impact factor. He also supervised several students doing their M.Phil research at the College. He has been given several critical responsibilities. He is management representative of ISO 9001: 2008, Coordinator undergraduate program and In-Charge Postgraduate Research laboratories. He also acted as Director Sports of the College. Currently he is on study leave from the University of the Punjab for pursuing his PhD from Germany.



**Pharmaceutics** 



Dr. Misbah Sultana B. Pharm., M. Phil. (Pb.), Ph.D (Pb.), R.Ph. Assistant Professor

Dr. Misbah Sultana obtained her Bachelor of Pharmacy degree from University of the Punjab, Lahore with Gold Medal. She did her M.Phil from the same university with high grade first division. After B. Pharmacy, she got experience of Industrial Pharmacy from Highnoon laboratories, Multan Road, Lahore. She worked as Hospital Pharmacist at Lady Aitcheson Hospital, Lahore for one year. She started her academic career from Punjab University College of Pharmacy (PUCP) as Lecturer on contract basis. She became permanent faculty member in February, 2009. She has been selected as Assistant Professor in March 2015. She has published more than 10 research papers in impact factor journals. She has attended many national and international Conferences and Seminars. She is active member of several committees at the College and University levels. She is President, Naat Society of PUCP, Executive Member of Academic Staff Association (ASA) and Member Medical Advisory Committee, University of the Punjab, Lahore. She has recently completed her Ph.D form University of the Punjab, Lahore. Her area for Ph.D research is Liquid Semisolid Matrix (LSSM) technology, Novel Drug Delivery System and Rheology.

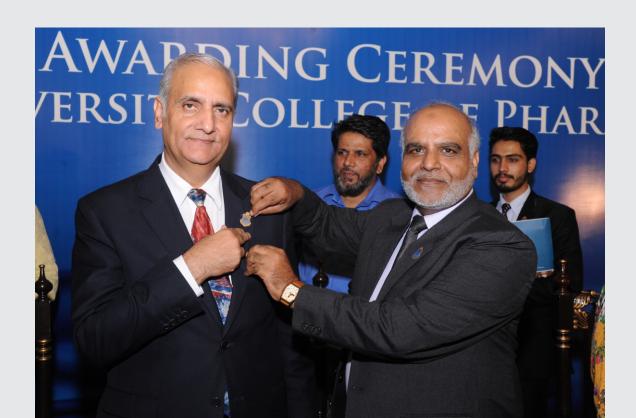


### **Pharmaceutics**



Dr. Pervaiz Akhtar Shah B. Pharm, M. Phil. (Pb.) R.Ph. Ph.D(UoS) Assistant Professor (On Leave)

Dr. Pervaiz Akhtar Shah did his B.Pharmacy and M.Phil Pharmacy from University of the Punjab, Lahore. He started his career in Pharmaceutical sales & Marketing in an international Pharmaceutical concern. His keen interest in teaching led him to join Punjab University College of Pharmacy, University of the Punjab as Lecturer. Later, he was selected as Assistant Professor. His areas of interest include the Formulation Design, Release Mechanisms, Pharmacokinetics and invitro — in-vivo correlation. He has supervised several M.Phil students. He published a couple of good publications in National and International Journals. He is on study leaves to complete his PhD, which is at the terminal stage from University of Sargodha, Sargodha.



# Teaching Faculty - Our Strength Pharmaceutics

Miss Rahat Shamim
B. Pharm., M.Phil (Gold Medalist)
MBA (Mkg), R.Ph.
Assistant Professor



Rahat Shamim did her B. Pharmacy from University of the Punjab, Lahore. She did her Masters in Business Administration with specialization of Marketing from Bahaudin Zakia University, Multan. She completed M.Phil (Pharmaceutics) with getting two Gold Medals for securing overall first position in all disciplines of M.Phil Pharmacy. She started her teaching career by joining PUCP as Lecture and thereafter, selected as the Assistant Professor. She teaches subjects like Pharmaceutics, Microbiology and Marketing Management to the Pharm.D and M.Phil students. She enjoys teaching because, according to her it is an opportunity to share enthusiasm and passion for her subject area with the students and she finds it incredibly rewarding to watch students develop their own ideas and grow in knowledge and confidence. When she teaches, she aims to perpetuate knowledge and inspire learning by creating an atmosphere that encourages lots of interaction between herself and the students, and between the students themselves. She likes to make each session as interactive as possible to engage students in the learning process. Rahat's research interests include new drug formulation and its design, development and evaluation, and the qualitative and quantitative evaluation of innovative drug delivery systems. To satisfy her research experience and passion, she has attended national and international conferences and workshops. Apart from teaching and Research, she has been assigned several managerial and administrative responsibilities in the PUCP. She is Class Tutor, In charge of Pharmacy Health Club, active member of the College's Job Placement and Career Counseling Cell and Superintendent of girl's hostel.



### **Pharmaceutics**



Dr. Nasir Abbas
B. Pharm. (Pb), R.Ph.
M.Sc. (UK), Ph.D (UK)
Assistant Professor (TTS)
Coordinator Postgraduate (M.Phil & Ph.D) Programs
In-charge College Admissions

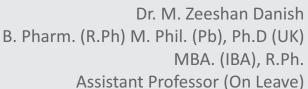
Dr. Nasir Abbas is graduated in bachelor of Pharmacy from the University of the Punjab, Lahore in 2002. He did his Masters in Pharmaceutical Analysis from University of the Strathclyde, Glagow, UK. He got distinction in Masters which earned him GSK and EastChem awards for pursuing PhD at University of the Edinburgh. During his PhD he has got a chance to work in world renowned facilities at GSK Stevenage, UK and Diamond Synchrotron Radiation Facility, UK. In 2010 he returned to Pakistan and joined Ripah International University, Islamabad. Where, he was actively involved in teaching and research of undergraduate and postgraduate students.

In 2013, Dr. Nasir joined PUCP, University of the Punjab as Assistant Professor. He is taking theory and practical classes of Physical Pharmacy, Pharmaceutical Preparation, Quality Management and Pharmaceutical Technology courses at undergraduate level. His teaching activities also extend to postgraduate courses (M.Phil & PhD) in Pharmaceutics. Eight students have completed their MPhil under his supervision. Currently three PhD and four MPhil scholars are working under his supervision. He is coordinating postgraduate program and In-charge of College Admissions.

His research interests include solid state studies of Pharmaceutical compounds by various characterization techniques such as XRD, PXRD, Raman spectroscopy, THz spectroscopy, DSC and Infrared spectroscopy. Formulation development is another area of his interest. His group is working in the field of crystal engineering, e.g., co-crystallization, polymorphism and amorphization of Pharmaceutical compounds. Solubility enhancement of poorly soluble drugs by various methods, e.g., solid dispersion, milling, polymorph screening and nano technological approaches are also his areas of research. He has expertise in crystallography at powder and single crystal levels. Recently he has been awarded with a research project funded by Higher Education Commission of Pakistan in the field of co-crystallization.



**Pharmaceutics** 





Dr. Muhammad Zeeshan Danish has completed his PhD from the top most School of Pharmacy, University of Nottingham U.K. His work was completed with International patent based DNA and RNA Gene technology for Medical and Environmental Applications. This technology was transferred to TraceTag international, where he worked as a technology transfer Associate and trained their scientists as a Postdoctoral candidate in Wales (Cardiff) U.K. He is HEC approved PhD supervisor and also the Author of two patents and more than 25 impact factor peer reviewed publications and more than 50 abstracts published in national and international proceedings and conferences. He is also the distinguished Editor of International Journal of RNAi and Gene Silencing and Chief Editor of the Journal of United Medical and Pharmaceutical Sciences (JUMPS). He has the honour to be the member of the panel of expert on biologicals for Drug Regulatory Authority Pakistan (DRAP). Dr. Zeeshan is serving at Punjab University College of Pharmacy since 2004 and has also the International teaching experience at School of Pharmacy, University of Nottingham U.K for three years. He is supervising post graduate research students in various universities. He has also been selected as a Visiting Research fellow at City of Orlando, Ventura, Florida, and U.S.A in 2015 to develop a model of biotechnological product development for clinical trial settings. His area of research includes Nanotechnology, Advanced Drug delivery, Gene Silencing/Gene Expression, Drug Discovery, Aptamer therapeutics, Antibodies, Cancer therapeutics, Vaccines, Molecular Biomarkers, phytochemical analysis, product development and designing Pharmaceutical/public health strategies. He is the member of International society of Aptamers and RNAi and Gene silencing, Royal society of Chemicals and United Kingdome and Ireland controlled release society and Pakistan.





Physiology and Pharmacology

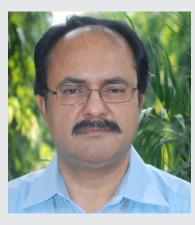
Dr. Syed Nawazish-i-Husain B.Pharm., M.Phil. (Pb.), R.Ph. Ph.D. (UK) Post Doc (UK) Associate Professor & Head of the Section



Dr. Syed Nawazish-i-Husain, a senior faculty member has been teaching in Punjab University College of Pharmacy, since January, 1994, the subjects of Physiology, Pharmacology and Pharmacy Practice to the undergraduate students of Pharm-D. He did his B. Pharmacy and M.Phil (Pharmacology) from University of the Punjab, Lahore. He obtained his PhD (Pharmacology) from University of Strathclyde, Glasgow, UK. His Post-doctrate is also from UK. Presently, he is also teaching Pharmacology to M.Phil and PhD students in addition to supervising their research projects. He is the Head of Pharmacology Section. Previously, he had been working as a Pharmacist in Drug Information and Poison Control Centre, as well as infectious diseases Hospital in Kuwait. His area of research is vascular pharmacology. He is interested in characterization and signaling of pusinergic and prostanoid receptors at various tissue levels. Currently, two PhD research scholars and eight M.Phil research students are carrying out their research projects under his supervision. He has published his research data in several renowned journals of Pharmacology, which includes British Journal of Pharmacology, Journal of Pharmacology and Experimental Therapeutics, Purinergic Signalling and PLEFA, to name a few. His lab has a friendly working environment. He has been member of most prestigious legitimate bodies of the University, which includes Senate, Syndicate, Board of Faculty and Board of Studies (Faculty of Pharmacy) etc.



Physiology and Pharmacology

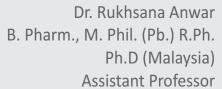


Mr. Muhammad Yar Rizwan B. Pharm., M. Phil. (Pb.), R.Ph. Assistant Professor

Muhammad Yar Rizwan joined Punjab University College of Pharmacy, University of the Punjab, Lahore as Lecturer in Pharmacology in early 2000. Soon after this position, he was selected as the Assistant Professor. He started his teaching career from Islamia University of Bahawalpur, Bahawalpur as Lecturer before joining PUCP. He did his B.Pharm and M.Phil Pharmacy (Pharmacology) from University of the Punjab, Lahore. He has published several research papers in reputed national and international journals. His areas of research are the Pharmacology and Pharmacokinetics.



Physiology and Pharmacology





Dr. Rukhsana Anwar is B.Pharm and M.Phil (Gold Medalist) Pharmacy (Pharmacology) from University of the Punjab, Lahore. She was selected by Punjab Public Service Commission as a Hospital Pharmacist and Drug Inspector. Later on in 2002, she started her teaching career as Lecturer at University of the Punjab, Lahore. She was promoted as Assistant Professor in 2007. She is keenly interested in research, University of the Punjab granted her a scholarship for PhD, which she did from University Sains Malaysia, Malaysia. A couple of M.Phil and PhD students are working under her guidelines. Dr. Rukhsana has published several papers in International journal with high impact factors. Her areas of interest are: Pharmacology, Biochemical Pharmacology, Metabolomics and Herb Drug interactions. She is registered as member with Pakistan Pharmacist Association, British Pharmacological Society & Malaysian Society of Physiology and Pharmacology.

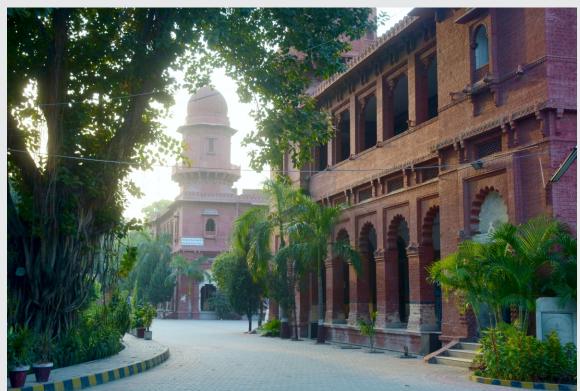


Physiology and Pharmacology



Dr. Sairah Hafeez Kamran
B. Pharm., M. Phil. (Pb.), Ph.D (Pb.), R.Ph.
Lecturer (on contract)

Dr. Sairah Hafeez Karman joined Punjab University College of Pharmacy, University of the Punjab, Lahore as lecturer of Physiology and Pharmacology in 2011. She obtained her M.Phil degree in Pharmacology from the University of the Punjab, Lahore in 2007 by achieving 1<sup>st</sup> position in the Pharmacology Section. She has recently completed her PhD form University of the Punjab, Lahore. The topic of her PhD research is metabolic disorders. In the last Pharm.D session the topics she took up in physiology included cell, circulation & gastrointestinal physiology. In pharmacology she taught chemotherapy, gastrointestinal, and respiratory & anesthetic pharmacology. She developed a setup of M.Phil Pharmacology laboratory sessions and has designed all the practical's currently undergoing in the sessions. Her research interests include glucose and lipid metabolism disorders and inflammation mechanics. She has published 9 original research papers and 2 review articles so far.





Physiology and Pharmacology



Mr. Inaam ur Rehman Pharm D., M. Phil. (Pb), R.Ph. Lecturer (on contract)

Mr. Inaam has completed his M. Phil degree form Punjab University College of Pharmacy, University of the Punjab. His research field is oncology. Currently he is doing his Ph. D in the discipline of Pharmacology from Punjab University College of Pharmacy, University of the Punjab Lahore. Mr. Inaam started his career form a leading private pharmacy institute. He has vast teaching experience. He has qualified the pharmacist registration exam of Dubai Health Authority (DHA).



Kiyoumars Dehdar

University of Punjab is a great environment for bright future and success. Being a part of such an amazing multicultural university that is so dynamic and interactive is a highlight of my experience.

I chose PUCP because of its strong teaching programme and opportunity to develop skills and knowledge to have successful career. The homelike and warm atmosphere is indeed my best experience I felt our Dean, Principal, teacher support me as parents to grow as professional pharmacist as well as a person.



Roza Mohammadi



**Pharmacy Practice** 



Dr. Hamid Saeed
B.Pharm (Pb.)
M.Phil. (Human Genetics)
Ph.D. (Denmark). R.Ph. Post Doc (USA)
Assistant Professor (TTS) & Head of the Section

Dr. Hamid Saeed is working as Assistant Professor of Clinical Pharmacy at University College of Pharmacy, University of the Punjab, Lahore. He is heading Section of Pharmacy Practice. He obtained his PhD from University of Southern Denmark, Odense, Denmark in 2006. Thereafter, he did two Postdocs from Ottawa Hospital Research Institute, Ontario, Canada and Stanford University, School of Medicine in the field of Endocrine Metabolic Disorders (Diabetes and Osteoporosis) and the role of Mesenchymal Stem cell in these disorders. He is the recipient of New Investigator Award and Allied Health Professional Award from European Calcified and Tissue Society, UK in 2010 and 2014, respectively. In ensuing years he developed research interests in investigating cancer biomarkers and Clinical & Social Pharmacy themes dealing with the Pharmacist's role in disease management and patient education along with public health issues; disease knowledge, anxiety and depression among community, mother health and role of Pharmacists in Community Pharmacy.

He has seven years of research experience in the field of Medical Endocrinology studying mouse models of human disease; diabetic, osteoporosis and kidney disease. Currently, he established his own research lab at University College of Pharmacy, University of the Punjab to pursue research themes targeting diseases prevalent in Pakistani society. He has published more than 25 research articles in international and national journals.



Pharmacy Practice





Furqan Hashmi graduated in 2000, Bachelor of Pharmacy (B. Pharmacy) from the University College of Pharmacy, University of the Punjab, Lahore. He started his professional career as a community pharmacist in a private organization and later, joined the Children's Hospital, Lahore. Afterward he went for master degree from the University of New South Wales, Sydney, Australia in 2003. On returning Pakistan, he taught in different Pharmacy institutes and joined Punjab University College of Pharmacy in 2007 as a contract Lecturer. Later he joined as permanent position in the faculty. In 2013, he was selected as a Assistant Professor.

His area of expertise is Clinical Pharmacy and Pharmacy Practice and to date he has published 33 peer-reviewed publications in reputable national as well as international journals. Currently he is on study leave from the University of the Punjab for pursuing his Doctorate degree at the School of Pharmaceutical Sciences, Universiti Sains Malaysia, Penang, Malaysia. Area of his PhD work is mixed methodology design including both qualitative and quantitative research methods in Pharmacy practice. In addition to the above he had been associated with the Pakistan Pharmacists Association (PPA) as the General Secretary.



## **Pharmacy Practice**



Mr. Zikria Pharm. D, M. Phil. (Pb.), R.Ph. Lecturer (on contract)

Zikria is working as a Lecturer Clinical Pharmacy at University College of Pharmacy, University of the Punjab, Lahore. He did his Pharm.D and M.Phil from the same prestigious institute. He conducted his M.Phil Research at Shaukat Khanam Cancer Hospital & Research Centre (SKCH& RC) and published 4 research papers during that tenure. Later, he worked as Community Pharmacist at Clinix-Plus Pharmacy for one year. He published 11 research papers with high impact factor and also attended number of seminars, training sessions and conferences. He designed new clinical practicals for Pharm.D He is also coordinating Clinical training programme of Pharm.D students in Jinnah Hospital. He has supervised Clinical research projects of more than 15 groups of Pharm.D students of Final Prof. and published the first project in Plos One with Impact Factor 3.3.He also co-supervised 15 M.Phil students. Besides Microsoft Office, he showed good interest in other software tools like Endnote for Scientific literature writing and SPSS for interpreting quantitative and qualitative data. Under the umbrella of National TB Control Program, he also acted as the Focal Person of Public private mix model for improved Tuberculosis control by referring TB presumptive cases to pharmacies and medical stores in Lahore, Pakistan. He is having research interest in Clinical Pharmacotherapeutics and Pharmacoeconnomics.



## **Pharmacy Practice**



Mr. Muhammad Salman Pharm.D (Pb), M.S (Clinical Pharmacy) (Malaysia), R. Ph. Lecturer (On Contract)

Muhammad Salman did his Pharm.D from University of the Punjab, Lahore and Masters from Universiti Sains Malaysia, Malaysia. He has published number of research papers in international journals of high impact factors. His areas of interest are: Drug Related Problems; Pahrmacoecnomics (CEA, COI, CUA, CBA, CMA and QOL); Chronic Kidney Diseases (ESRD, HD, PD, Pre-dialysis Analysis); Chronic lifestyle Diseases; Acute Kidney Injury (Epidemiology and Clinical Outcomes). Apart from academics, he has the title of Mr. Universities for Body Building (year 2015). He is also doing PhD from University Sains Malaysia, Malaysia.





## Pharmacognosy



Miss Uzma Niaz
B. Pharm. (B.Z.U.), M. Phil. (Pb.).R.Ph.
Assistant Professor & Head of the Section

Miss Uzma Niaz joined Punjab University College of Pharmacy, University of the Punjab, Lahore as Lecturer in Pharmacognosy in early 2000. Currently, she is working as the Assistant Professor and Head of the Pharmacognosy Section. She is among the senior Faculty members. She started her professional career from Pharmaceutical Industry. Teaching passion persuaded her to join Islamia University of Bahawalpur, Bahawalpur before joining PUCP. She supervised research of several postgraduate students. She has published several research papers in reputed national and international journals. Her areas of research interest include standardization of natural products, screening, isolation and structure elucidation of biologically active constituents, stability studies, Pharmacokinetics and biological activity-guided isolation and formulation of standard natural drugs, Drug delivery, Pharmaceutical dosage form development, Pharmacy practice, Clinical Pharmacy and Pharmacotherapies.



# Teaching Faculty - Our Strength Pharmacognosy



Dr. Saiqa Ishtiaq B. Pharm., M. Phil. (Pb.), Ph.D (UoK), R.Ph. Assistant Professor

Dr. Saiqa Ishtiaq has completed her PhD in February, University of Karachi in 2016. It is a pride and honour that she is the first lady in Punjab who got PhD degree in Pharmacognosy. She got her B.Pharmacy and M.Phil (Pharmacognosy) degrees from University of the Punjab Lahore. She is teaching Pharm-D students since 2006 and post graduate students since 2010. She is actively involved in research and has supervised 15 M.Phil students. Until now, she has published 11 research papers in well reputed International and national Journals with impact factor. Her areas of research are the pharmacognostic studies of medicinal plants, evaluation of the medicinal plants biological activities, and the isolation and characterization of plant constituent.



Pharmacognosy



Mr. Muhammad Khalil-ur-Rehman B.Sc. (Eng), B. Pharm., M. Phil. (Pb.) R.Ph. Lecturer (On Leave)

Muhammad Khalil-ur-Rehman joined Punjab University College of Pharmacy as B. Pharmacy student in 1999. After graduating from University of the Punjab he started his professional career as the practicing Pharmacist and served community and hospital but inspiration for teaching and research urged him to join post-graduate degree. After getting the postgraduation degree in Pharmacognosy from University of the Punjab, Lahore, he joined the teaching profession to satisfy his teaching and research passion. Since teaching and research, both demand more learning so, to learn more he doing PhD studies at Austria.

His areas of research interest include standardization of natural products, screening, isolation and structure elucidation of biologically active constituents, stability studies, Pharmacokinetics and biological activity-guided isolation and formulation of standard natural drugs, Drug delivery, Pharmaceutical dosage form development, Pharmacy practice, Clinical Pharmacy, and Pharmacotherapies.



Pharmacognosy



Dr. Farrakh Zia Khan M.Sc (Pb), Ph.D (Wales UK) Professor (on contract)

Prof. Dr. Farrakh Zia Khan is serving Punjab University College of Pharmacy, University of the Punjab, Lahore since 1979. He joined this institution as Lecturer and retired as Professor of Pharmacognosy in 2008. He continued serving the PUCP since his retirement and working on contract basis. He is actively participating in, and supervising research. His areas of research interest include phytochemical and biological studies of indigenous medicinal plants. He has published over 40 research papers in reputed impact factor journals nationally and internationally. Till date he has produced several graduate and postgraduate students including 34 master of philosophy students and one doctor of philosophy student.



## Research Scholars



Mr. Noman Asif Pharm. D (Pb.), M.Phil, R.Ph. Research Scholar



Miss Asma. Manzoor Pharm. D (Pb.), R.Ph. Research Scholar

# Visting Faculty

Ms Amna Rehman B.Pharm., M.Phil. Pharmacist, Jinnah Hospital, Lahore.

Clinical Pharmacy

Dr. Shoaib Javaid MBBS

Anatomy

Dr. Muhammad Ali

**MBBS** 

Anatomy

Mr. Zafar Ali Bhatti

M.Sc. (Stat.)

Statistics

Dr. Ahsan Muzaffar

Pathology

Pharmacy

M.B.B.S, Medical Officer,

B.Pharm., M.Pharm.

Shalimar Medical & Dental College, Lahore

Industrial Mr. Shoaib Hakeem

Plant Director, Survier Pharmaceuticals

Prof. Irfan-ul-Haq B.Sc., M.Sc. (Math) Punjab University, Lahore Applied Mathematics

Islamic & Pakistan

Studies / Ethics

Prof. M. Arif Qureshi M.A. (Islamic Std.), M.A. (History),

M.A. (Pol. Sc.), LL.B (Pb.)

Ex. Chairman,

Dept. of Pakistan Std. / History, F.C. College University, Lahore.

Ms. Uzma Usman M.A. English

English



# Admission Office Staff - Our Support



Mr. Shahid Hameed Admin Officer



Mr. Rizwan Maqsood Jr. Clerk (Admission Record)



Ms. Naila Ijaz
Jr. Clerk (Examination)



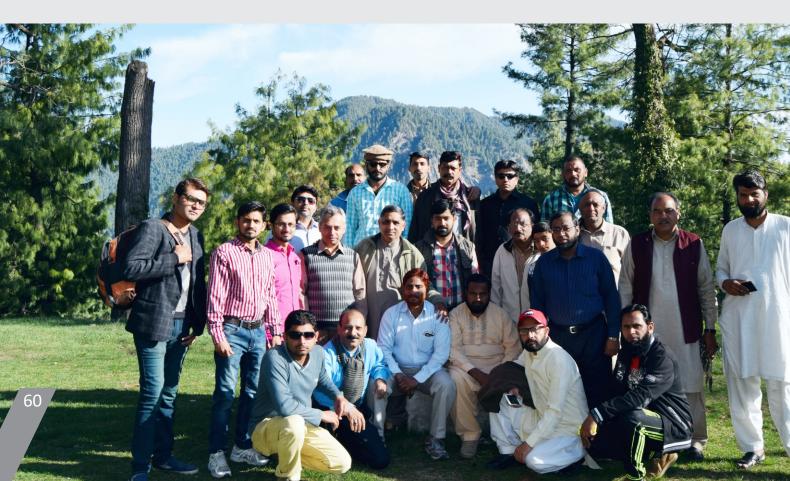
Mr. Muhammad Ilyas P. S. (Letters & Certificates)



Mr. Mudassir Hussain
Jr. Clerk (Admission Record)



Mr. Muhammad Tufail N. Q.



## Office Staff

Mr. Malik Muhammad Waris **Assistant Registrar** Mr. Muhammad Jawad Aslam **Network Administrator** 

Mr. Gulfam Nasir **Private Secretary** 

Mr. Muhammad Igbal Administrative Officer (Establishment) Mr. Shahid Hameed Administrative Officer (Admission)

Mr. Munawar Ramzan Sr. Stenographer Mr. Syed Abid Ali Shah Stenographer

Mr. Syed Zafar Hussain Shah Assistant (Accounts) Mr. Hafiz Zafar Igbal Sr. Clerk (Accounts) Mr. Muhammad Shafique Sr. Clerk (Admission)

Mr. Rana Umar Farooq Jr. K.P.O (Accounts) Mr. Naila Ijaz

Junior Clerk (Examination) Mr. Mudassir Hussain Junior Clerk (Admission Record)

Mr. Rizwan Maqsood Junior Clerk (Admission)

Ms. Rabia Arshad **Junior Clerk** 

Mr. M. Farooq Azam Lab. Superintendent

Mr. Liagat Anwar Store Keeper Mr. Muhammad Saeed Head Lab. Assistant Mr. Saleem Anjum Head Lab. Assistant Mr. M. Arif Malik Head Lab. Assistant Mr. Ejaz Ahmad Head Lab. Assistant

Mr. Ijaz Hussain **Junior Technician** Mr. Khalid Pervaiz Mechanic Mr. Waseem Akhtar Electrician Mr. Fawad Ali Lab. Assistant Mr. Abdul Sattar Lab. Assistant Mr. Javed Akhtar Lab. Assistant Mr. M. Arshad Malik Lab. Assistant

## **Library Staff**

Mrs. Nazima Riaz Librarian

Mr. Shafiq-ur-Rehman Sr. Clerk (Library) Ms. Huma Saeed Lib. Attendant Ms. Uzma Tahir Lib. Attendant Lib. Attendant

Mr. Hafiz Saddam Ahmad Gondal

## **Academic Programmes**

The College is offering the following Academic Programmes in Pharmacy.

## Doctor of Pharmacy (Pharm. D.) (Morning & Evening Programme)

Candidates for admission to Doctor of Pharmacy should have passed F.Sc. (Pre-medical with 60% marks or B.Sc. (After F.Sc. Pre-medical 60% marks) or equivalent examination.

## Master of Philosophy (M.Phil.) (Morning & Evening Session)

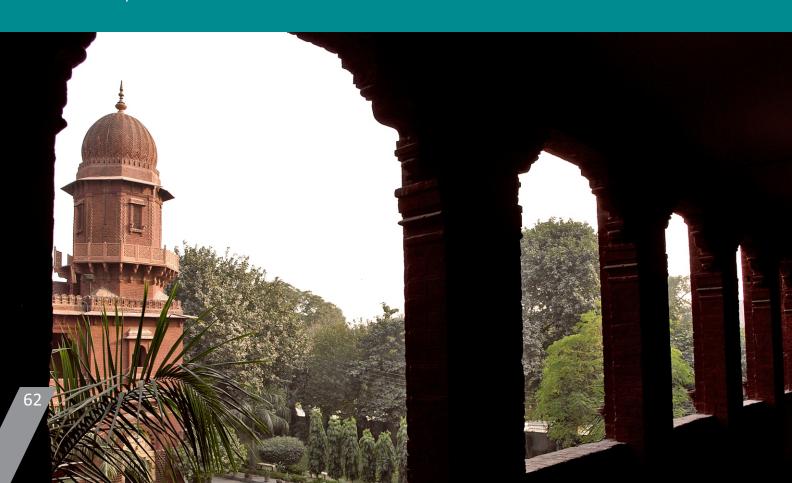
Candidates holding B.Pharm. or Pharm.D. degree are eligible for admission in any one of the five disciplines: namely Pharmaceutics, Pharmaceutical Chemistry, Pharmacology, Pharmacy Practice and Pharmacognosy.

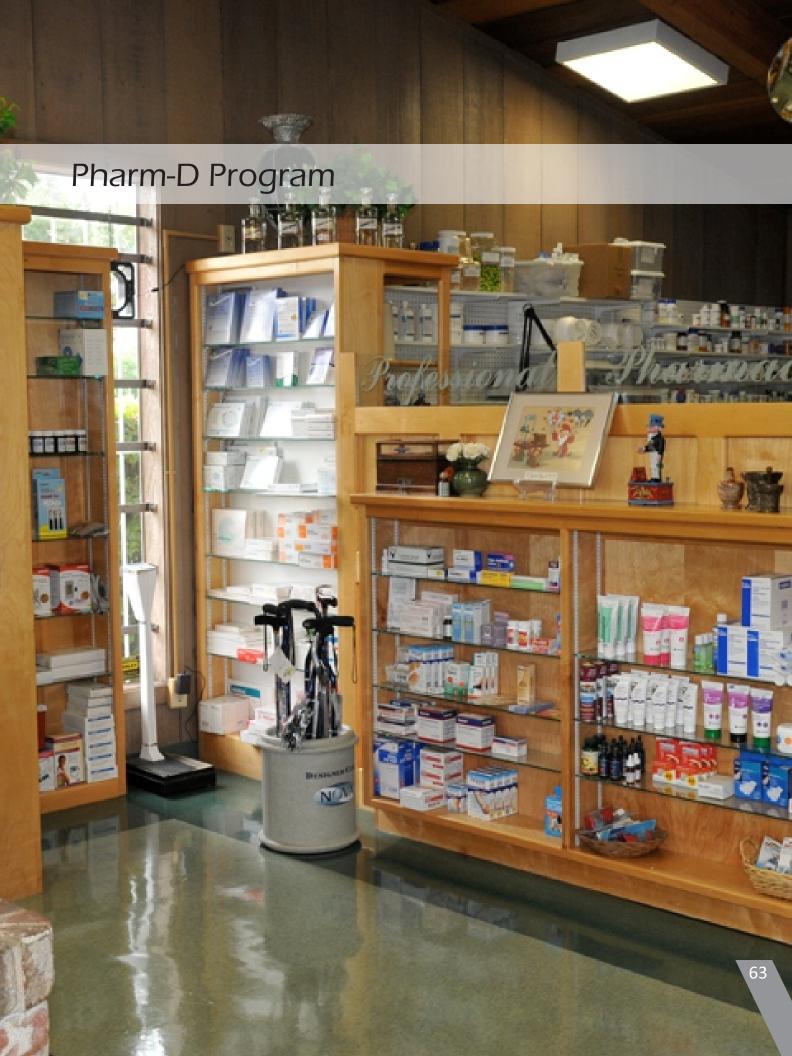
## Doctor of Philosophy (Ph.D.) (Morning Session)

Candidates holding first class (CGPA 3.0) M. Phil. Degree are eligible for registration in Ph.D. in any of the four disciplines namely Pharmaceutics, Pharmaceutical Chemistry, Pharmacology and Pharmacognosy.

### Diploma and Certificate Courses

This year, Punjab University College of Pharmacy is going to start Certificate program in Quality by Design (QbD) for professionals working in Industry and Research & Development. This would be a first ever Certificate program in any Pharmacy institutes in Pakistan. Other Certificate and Diploma courses for Pharmacy students and health Professionals will be started in future.





## Doctor of Pharmacy 1st Professional Class (Morning)

Doctor of Pharmacy is a five years degree program based on annual system duly approved by HEC and Pharmacy Council of Pakistan.

## Allocation of Seats

Total Seats	181
Seats on Open Merit	
(a)F.Sc. (Pre-Medical)	99
(b)B.Sc. (After F.Sc. Pre-Medical	16
Reserved Seats	

The number of seats may be changed without prior information.

**The reserved seats are as follow:** (Preference will be given to F.Sc students. In case of absence of F.Sc, B.Sc students may be considered).

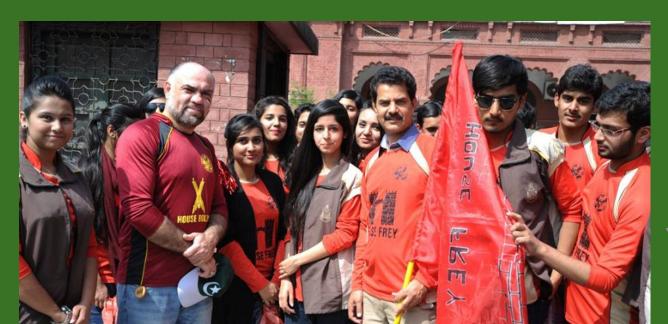
- Children / spouses / real brothers or sisters / nephews or nieces (in this order of priority) of the Punjab University Teachers, serving or retired, (excluding teachers on contract/deputation/part time) with a service of not less than five years. Candidate must attach a letter from Registrar, University of the Punjab, issued for admission purpose and showing the relation of Teacher.
- 2. Children / spouses / real brothers or sisters / nephews or nieces (in this order of priority) of the Punjab University Employees, serving or retired, (excluding employees on contract/ deputation/part-time) with a service of not less than five years. Candidate must attach a letter form Registrar, University of the Punjab, issued for admission purpose and showing the relation of employee. 04 Seats
- 3. Disabled persons on humanitarian grounds to be approved by the Vice-Chancellor on the recommendations of the Principal of the College and duly approved by the concerned Dean and the Committee constituted to determine the disability of the candidates. Candidate must attach disability certificate from the competent authority. 03 Seats
- 4. Outstanding persons (Male & Female) selected on various sports by the Special Sports Committee appointed by the Vice-Chancellor for such purpose on the basis of the level of sports of the candidates concerned. 03 Seats
- 5. (a) Candidates from Azad Kashmir, to be nominated by the Nomination Board, Government of Azad Kashmir, Muzaffarabad. 01 Seat
  - (b) Candidates from Gilgit, Baltistan and other Northern Areas, to be nominated by the Nomination Board, Directorate of Education, Gilgit. 01 Seat
- 6. Student having distinction in Co-curricular activities to be selected by a Committee to be appointed by the Vice-Chancellor for this purpose. Activities to be decided by the admission committee. Candidate must attach outstanding performance certificate from the competent authority. 03 Seats
- 7. Under provision of the drug Act 1976 the Children / spouses / brothers / sisters / Non Relative Nominee of the Company of the Proprietor / Partner / Director of the Pharmaceutical Industry, [in this order of priority] having minimum legal standing of five years from the date of Drug Manufacturing License and are appointed under the Drug Companies Ordinance, 1984, will be eligible for admission. Candidate must attach (i) A nomination letter issued from the Director / Chief Executive whose name mentioned

in the Company's Registration Form C-29. (Particulars of Director under Company Ordinance 1984) (ii) A copy of Form C-29 (iii) Valid drug manufacturing license (iv) Any proof Showing that company was established at least five years ago. (iv) A bank draft amounting to Rs. 2,50,000/- along with the application form payable in favor of Principal Punjab University College of Pharmacy, University of the Punjab Lahore. 03 Seats

- 8. Foreign students under (PTAP) Technical Assistance Programme including African Programme, duly recommended by the Ministry of Finance and Economic Affairs Division, Government of Pakistan, Islamabad. 14 Seats
- 9. Foreign students under Self Finance Scheme duly recommended by HEC, Government of Pakistan, Islamabad (Every student will pay 1000 US \$ along with normal university dues) at the time of admission only 12 Seats
- 10. Foreign students from Central Asian Region Republics duly recommended by the Ministry of Finance and Economic Affairs Division. Government of Pakistan, Islamabad. 03 Seats
- 11. Special seats for candidates from Bangladesh. 05 Seats
- 12. Reserve seat for the students of Baluchistan: only those students are eligible who have Baluchistan Domicile & completed his/her Matric & F.Sc from the Institution of Baluchistan. 01 Seat
- Children/wards of martyrs/war disabled personnel of the Defense Forces (in the absence of this category, children / wards of serving or retired person of the Armed Forces) to be nominated by the G.H.Q. Adjutant General Branch, Rawalpindi.
   01 Seat
- Son, Daughter grand children (in this order of Priority) of the Pharmacist (Proof required) who is registered in category "A" (valid/current Proof required) from any provincial Pharmacy Council of Pakistan holding Punjab Domicile.
   O3 Seats

## Seats for Overseas/Ex-Patriates Students

15. Pakistani students whose parents are expatriates, or are currently residing abroad (Proof required (a) A valid letter from Overseas Pakistani Foundation (O.P.F) regarding the admission. (b) A certificate from the parents of the candidate duly attested by the concerned Pakistani embassy. (c) Photocopy of the parent's passport and visa duly attested by the concerned Pakistani embassy), can only apply directly. Foreign Students/Children of Pakistani ex-patriotism addition to the usual prescribed fees of the University and the Department concerned, shall pay US dollar 1,000/- or its equivalent Pak rupees at the time of admission in the particular bank accounts of the University.



# Doctor of Pharmacy 1st Professional Class (Evening)

### Allocation of Seats

Total Seats		135
Seats on Open Merit		115
(a)	F.Sc. (Pre-Medical)	107
(b)	B.Sc. (After F.Sc. Pre-Medical	8
Reserved Seats		20

The number of seats may be change without prior information.

The reserved seats are as follow:

- Children / spouses / real brothers or sisters / nephews or nieces (in this order of priority) of the Punjab University Teachers, serving or retired, (excluding teachers on contract/ deputation/part-time) with a service of not less than five years. 04 Seats
- 2. Children / spouses / real brothers or sisters / nephews or nieces (in this order of priority) (in this order of priority) of the Punjab University Employees, serving or retired, (excluding employees on contract/deputation/part-time) with a service of not less than five years. 04 Seats
- 3. Under provision of drug Act 1976 the Children / spouses / brothers / sisters of the Proprietor / Partner / Director of the Pharmaceutical Industry, Nominee of the Company [in this order of priority) having minimum legal standing of five years from the date of Drug Manufacturing License and are appointed under the Companies Ordinance, 1984, will be eligible for admission. The bank draft amounting to Rs. 2,50,000/- along with the application form payable in favor of Principal University College of Pharmacy, University of the Punjab Lahore.
  03 Seats
- 4. Pakistani students whose parents are expatriates, or are residing abroad (Proof required (a) A letter from Overseas Pakistani Foundation (O.P.F) regarding the admission. (b) A certificate from the parents of the candidate duly attested by the concerned Pakistani Embassy. (c) Photocopy of the parent's passport duly attested by the concerned Pakistani embassy), can only apply directly. Foreign Students/Children of Pakistani ex-patriotism addition to the usual prescribed fees of the University and the Department concerned, shall pay US dollar 1,000/- or its equivalent Pak rupees at the time of admission in the particular bank accounts of the University.

  05 Seats
- 5. Candidates from Azad Kashmir, to be nominated by the Nomination Board, Government of Azad Kashmir, Muzaffarabad. 01 Seat
- 6. Son, Daughter grand children (in this order of priority) of the Pharmacist (Proof required) who is registered in Category "A" (valid/current proof required) from any provincial Pharmacy Council of Pakistan holding Punjab Domicile. 03 Seats

### Merit Calculation Formula

#### For F.Sc base candidates

Marks earned (1/4 of matriculation or equivalent + F.Sc or equivalent + Additional marks\*)

Total marks (1/4 of matriculation or equivalent + F.Sc or equivalent) x 100

#### For B.Sc base candidates

Marks earned (1/4 of matriculation or equivalent + 1/5 of F.Sc or equivalent + B.Sc + Additional marks\*) x 100

Total marks (1/4 of matriculation or equivalent + 1/5 of F.Sc or equivalent + B.Sc)

\*Additional Marks: Hafiz-e-Quran = 20

**Note:-** For morning Class, two marks will be deducted from percent academic marks for each late session to a maximum of immediate last Five session.

## Admission Procedure (Online)

- (I) On the Admission Portal, www.admissionpucp.edu.pk Create Account Login Read Instructions Fill in Registration form Save & Finalize Print Deposit fee in any HBL branch Check for change of Application status from "Pending" to "Paid & Ready to Submit" within 3 days of deposit. (In case of any problem, contact during office hours, 8 am to 4 pm on the contacts given below. The contacts shall be opened in off-days during admission.
- (ii) Submit the Printed and Signed (in ink) Application along with all necessary documents (prescribed in the check list for respective seat) to Admission Office, Punjab University College of Pharmacy, University of the Punjab, Allama Iqbal Campus, Lahore-54000 within 4 working days of closing date, personally or by post/courier.

## Admission Procedure (Manual)

- 1. (a) The Admission Notice for Doctor of Pharmacy First Professional Class will be floated in the leading Newspapers in Lahore and Rawalpindi simultaneously.
  - (b) The applications on the prescribed forms (attached with this prospectus) complete in all respects are submitted in the University College of Pharmacy on or before the expiry date of receiving the admission forms as notified in the Admission Notice.
  - (c) The admission form sent within due date by post/courier, are acceptable however a receipt thereof will not be provided. The admission forms received after due date will not be accepted/included in merit list. A candidate can not claim any favor if the admission office has not received admission form sent through post/courier.
  - (d) The candidate who has obtained at least 60% marks of the total marks in F.Sc. (Pre-medical) B.Sc. (After 60% F.Sc. Pre-Medical) or equivalent examination from the Boards of Intermediate and Secondary Education or Universities in the territorial jurisdiction of the Punjab Province, will be eligible to apply for admission. The candidates whose parents possess domicile of Punjab and have been serving in other provinces and they have qualified from Boards/ Universities of other

provinces; will also be eligible to apply for admission on open merit seats by giving cogent reasons to substantiate their claim. The candidates who qualify F.Sc./B.Sc. in Supplementary Examination 2017 will not be eligible for admission.

2. The candidate seeking admission to Doctor of Pharmacy must be physically and mentally fit. The candidate shall attach photocopies of the following documents with the application form and shall produce his/her original certificates at the time of interview/admission. The original documents of the applicant will remain in the possession of the office till he/she completes his/her Doctor of Pharmacy Programme. However, the original documents will be returned to the student in case he/ she tenders written request for the cancellation of his/her admission or otherwise.

### Requirements of Admission

- (a) Fifteen recent passport size coloured photographs. [3 with application/12 after obtaining admission]
- (b) Secondary School Certificate showing date of birth (or equivalent certificate from IBCC)
- (c) Detailed marks Certificate of F.Sc. [Pre-medical] or B.Sc. [or equivalent certificate from IBCC]
- (d) Character certificate from the institution last attended
- (e) Physical Fitness Certificate (Original Not Photocopy) from a Registered Medical Practitioner
- (f) Domicile certificate
- (g) Certificate of Hafiz-e-Qur'an if applicable
- (h) Those students who applied from other boards will provide NOC after admission within a week
- (i) CNIC / Bay Form (Nadra) of the candidate
- (j) Father's / Guardians CNIC
- 3. The candidate will produce a certificate from a recognized Institution indicating that he/she is Hafiz-e-Qur'an. Moreover; the College Admission Committee will interview and test the candidate in order to substantiate his/her claim.
- 4. The incomplete applications or those received after due date by post/courier will not be entertained.
- 5. The list of the candidates admitted on Open Merit and on the waiting list will be displayed on the College Notice Board as per schedule of admission.
  - The selected candidates will deposit University and College dues at Habib Bank Limited, old Campus Branch, Lahore, after obtaining necessary challan forms from the Accountant of the College within the due date. The candidate shall submit a copy of the Bank Receipt to the College on the same day in order to confirm his/her admission and to avoid any complications.
- 6. The candidates for Reserved Seats should clearly indicate the Category of seat with bold letters in Red Ink in specific place on the Admission Form. The List of the candidates admitted on reserved seats will be displayed on the College Notice Board as per admission schedule.
- 7. (a) There will be no discrimination of sex according to the Article 25(2) of the Constitution of Islamic Republic of Pakistan.
  - (b) The selection will be made purely on merit.

- (c) Vacant seat(s) if any will be filled strictly in accordance with the admission criteria.
- (d) In case the date for receiving the applications is extended, the admission of the fresh applicants will be made on merit.
- (e) If there are more than one applicant against any reserved seats, selection will be made purely on merit
- (f) If there is no applicant for any reserved seat, the seat(s) will be transferred to the General Merit Quota or as decided by Admission committee.
- 8. The candidates holding B.Sc. degree will be considered for admission provided they had passed the Intermediate Examination with Premedical subjects and had studied at least one or more of the subjects at B.Sc. level among Botany, Chemistry, Microbiology and/or Zoology.
- 9. The merit of F.Sc. and B.Sc. candidates against open and reserved seats [other than foreign students) will be determined by the College Admission Committee. Two or more F.Sc. candidates having equal marks/agregate will be considered on their marks in F.Sc. If the marks in F.Sc. is equal then will be considered on their marks in Secondary School Certificates. If the marks in Secondary School Certificate are also equal, the candidate senior in age will be admitted. Similarly the merit of candidates, having equal marks in B.Sc. will be determined like that of F.Sc. candidates.
- 10. The applicants on open merit must produce domicile of Punjab Province.
- 11. The applicant with F.Sc. whose age is more than 24 years and one with B.Sc. whose age is more than 26 years, on the last date of submission of application will not admitted.
- 12. Allocation of seats for admission is liable to be changed from time to time depending upon the National/International requirements and the directives of the Government/University authorities.
- 13. For misleading and falsifying the facts on admission form the collage has rights to prosecute the candidate. Any decision made for such information will be corrected when recognized. All erros and omissions will be corrected when recognized. The losing candidate can not claim any compensation.

### Admission Requirements for Foreign Students

Applications from foreign students should be submitted through the Ministry of Economic Affairs Division, Government of Pakistan, Islamabad through their respective Governments. Application sent directly to the College of Pharmacy will not be entertained. The student must submit equivalence certificates from Inter Board Committee of Chairmen (IBCC), Islamabad prior to confirmation of their admissions.

#### Academic Calender

From the last year we are provide/display on notice board the Academic Calender after the completion of admissions bearing important information such as commencement of classes, sendup, annual/supplementary examinations, declaration of results, Seminars, Co-curricular events and holidays.

#### Migration

Applications for migration from other Universities is not accepted at any stage during academic session.



# Code of Honor & Welfare

## Dress code and appearance

When you are in College, the dress code is not an issue of the personal style. Dress Code is implemented for keeping conducive learning environment, promoting safety while working in laboratories and professionalism. This rule is applied in every educational institute around the world and students must comply with the dress code policy of the College. Here is the summary of our Dress Code Policy.

**In general:** The tight fitting, low cuts, backless cloths and attire are not acceptable.

**Appearance and hair:** The appearance and hair of the students should be non-detracting you and others during class.

**Tops/Shirts:** The shirts can be long or short sleeve that cover shouldes (not without sleeve). They must be text or logo free (unless it is PUCP or PU logo). For boyes, they must be tucked in.

**Bottoms/trousers:** Pants or trousers worn at waistline. The shorts, tights or leggings are not allowed.

**Shoes and Socks:** Shoes must be closed toe. For girls, the heels should not be too high.

During lab sessions and work, Students are required to use white laboratory coats with their names inscribed.

### Discipline Rules

The Principal is responsible for maintaining discipline in the college. Students are required to abide by the rules and maintain discipline in the college. Any student found guilty of committing an act which is likely to affect the discipline is liable to punishment with fine or expulsion or rustication from the college. Students must not be involved in any of the following activities:

- (I) Uttering, doing or propagating anything contravening to the Islamic Principles within or outside the premises of the university.
- (ii) Saying or doing anything which is a verse to the ideology of Pakistan or the university and its teachers.
- (iii) Smoking in the college premises and examination hall.
- (iv) Association with an organization/ society/club or any other body, promoting caste distinction and inciting parochial/linguistic/regional feelings.
- (v) Organize or hold any function within the premises of the university except in accordance with the prescribed rules and regulations.
- (vi) Collect money or receive donations or pecuniary assistance for or on the behalf of the university or any other university organization except with the written permission of the competent authority.
- (vii) Indulge in immoral activities, use indecent language/ wear immodest dress, make indecent remarks, joke or gestures or behave in an improper manner.
- (viii) Stage, incite or participate in a walkout, strike or any other form of agitation which creates or is likely to create law and order problem for the university administration and affect or is likely to affect its smooth functioning.
- (ix) Disturb peace and tranquility of the College.
- (x) Keep or carry weapons, narcotics, immoral or subversive literature.
- (xi) Use insulting or abusive language or resort to violence against a fellow student or employee of the

University disciplinary action taken by the principal of the College or the Disciplinary Committee against the student may be in one or more of the following form, depending upon the severity of the offence.

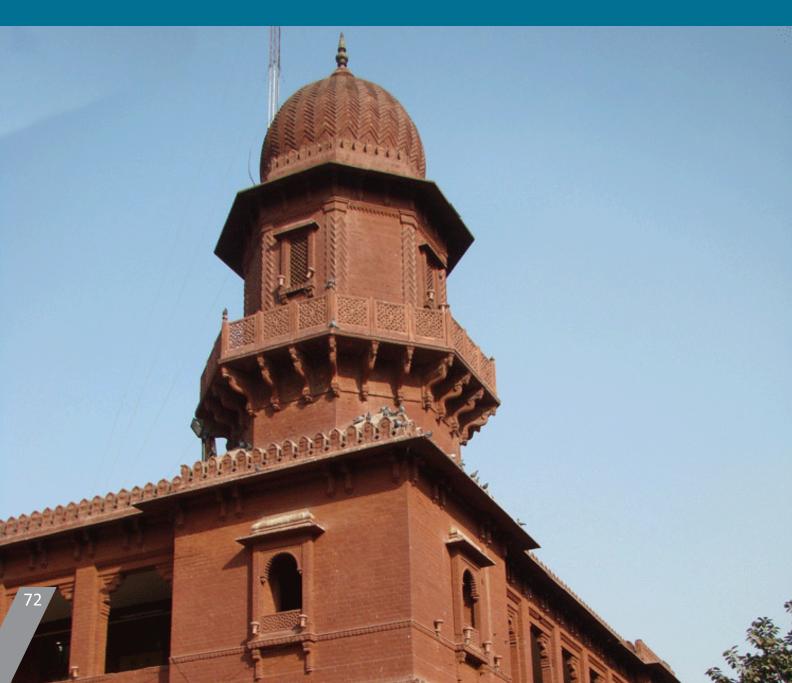
- (a) A written warning may be issued to the students concerned and a copy of the same may be displayed on the Notice Board.
- (b) The matter may be reported to the parents/guardians who may be called in the college if necessary.
- (c) A student may be fined and the fine imposed shall have to be deposited with the treasurer and intimated to the Chairman/Secretary Disciplinary Committee (Constituted under Statute II of the University of the Punjab Act as the case maybe).
- (d) A student may be turned out of the class by the teacher concerned and may not be permitted to attend the same course up to three periods at one time under intimation to the principal.
- (e) A student may be placed on probation for a fix period not exceeding 3 months. If during the period of probation he/she fails to improve conduct, he/she may be rusticated or expelled from the college.
- (xii) The College respects the freedom of expressions. However, no presentation/ demonstration/ argument will be tolerated against the College and the University in Public or Social media. On violation, a strict action may be taken. The college has its own complaint system. In case of any complain, the class Tutor, Student Advisors and College authorities are available to listen every student.

## **Rustication & Expulsion**

- 1. Rustication whenever, imposed on a student means the loss of one academic year, as far as his/her appearance in the university examination is concerned. The period of absence from the college will, however, depends upon the time of the year when penalty is imposed. The student under rustication may be, at the discretion of the principal of the college, allowed to rejoin the class in the beginning of next academic year.
- 2. A student expelled from the college shall not be re-admitted in the college or to another college or department without the permission of the Syndicate which is a competent body to deal such cases.
- 3. A council comprising the following staff members will consider the cases of rustication and expulsion of the students:
  - (a). Prof. Dr. Nadeem Irfan Bukhari
  - (b). Prof. Dr. Khalid Hussain
  - © Dr. Abida Latif and Dr. Amjad Hussain as Student Advisors
- 4. All Muslim students must show in words and deeds, their full faith in Islam.
- 5. All students must have faith in and respect for the ideology of Pakistan.
- 6. All students must respect the convictions of others, pertaining to the matters of religion.
- 7. Every student is expected to:
  - (i) be loyal to Pakistan.
  - (ii) obey the law of the Land as well as the Rules and Regulations of the University.



- (iii) maintain law and order as well as the dignity and prestige of the Alma Mater.
- (iv) have respect for morality and personal honor and rights of others.
- (v) practice honesty and integrity in dealing with fellow students, teachers and all others both on and off the campus.
- (vi) help in protecting the life, dignity, honor and the property of the University/Faculty/College and that of the employees and fellow students.
- (vii) respect teachers, all elders and any person in authority in the University/Faculty/College.
- (viii) Be courteous and helpful to all.
- (ix) Work hard and complete the course of study within the prescribed period and endeavor to positively contribute towards creating an atmosphere conducive to healthy academic pursuits.



# General Regulations

- (a) A student who completes the required percentage [75%] of attendance in theory and practical both and submit exam admission form for the respective professional class will be allowed to join the next higher class provisionally. However, if such candidate fails to qualify at least two subjects in any Professional 2nd Annual Examination of Doctor of Pharmacy or declared as 'must appear', his provisional promotion to the next higher class will stand automatically cancelled. "Must Appear" means that a student who fails to qualify 2nd, 3rd, 4th and Final Prof. examination in four consecutive attempts, will have to reappear in all the papers of that examination. Those students who have been promoted after second annual examination will appear in the next examination after the completion of one year academic session and they have to fulfill the attendance requirement.
- (b) Before examination of each prof. clearance from all concerned facilities is mandatory. If any student have severe shortage or declared to be ineligible to appear in examinations, appear by any reasons (such as our omissions or their false statements) will be barred from appearing in examinations. If they still appear in examinations, their results will be withheld. The College / University reserves the rights to cancel the examinations or admission at any stage.
- (c) A student who is promoted to next higher class provisionally on the basis of attendances will be considered as regularly promoted, if he passes at least two subjects at least up to the 2nd Annual Examination of that class. However, such category of students shall not be allowed any further promotion to next higher class unless he passes all the lower examinations.
- (d) A student who qualifies at least two subjects in an examination, he/she should immediately apply to the Principal for promotion to the next higher class.
- (e) A student will not be allowed to appear in the higher professional examination unless he/ she gets through all of the lower Professional Examinations.
- (f) A student who fails to qualify 1st Professional Examination in four consecutive attempts including the 1st Annual Examination of that class will be struck from college roll. He will not be allowed further to appear in any of the Pharmacy Examination. However in case of hardship, the Vice- Chancellor, may give one special chance on the recommendation of the Board of Studies in Pharmacy.
- (g) A student shall cease to be a regular student as soon as his classes are terminated towards the end of the academic year.
- (h) A student who remains absent without prior sanction of leave for a continuous period of 14 days, (excluding holidays), will automatically stand dropped from the rolls of the University on the 15th day of absence, unless the cause of absence is explained to the satisfaction of the Principal of the College. In such case the student may be re-admitted within 10 days after his dropping from the rolls. The term "University classes" will include lectures, practicals, tutorials, seminars, group discussion etc., duly notified by the College to be held during an academic term or session.
- (I) Students whose names are dropped or struck off the rolls of the University teaching Departments/ College due to shortage of lectures or non-payment of dues or poor performance or non-appearance in the examination etc., shall not be granted readmission without permission of the Syndicate.
- (j) The Admission Regulations approved by the main Admission Committee of the University of the Punjab will also apply to the Pharmacy Admission, in Self-supporting Evening Programme.

**Note**: Any rule mentioned in the prospectus can be changed by the competent authority without prior information. The PUCP will follow the current rule laid down by the University of the Punjab, Lahore.

# **Curriculum Outlines**

100

100

100

# **Doctor of Pharmacy**

Doctor of Pharmacy is a Five Years degree programme based on annual system duly approved by the Academic Council, Higher Education Commission and Pharmacy Council of Pakistan. The detail of new syllabus and marks is given below (Subject to the approval from University's concerned bodies:

#### First Professional

Theory

rricory			
Paper 1	Pharmaceutical Chemistry-I (Organic)		100
Paper 2	Pharmaceutical Chemistry-II (Biochemistry)		100
Paper 3	Pharmaceutics-I (Physical Pharmacy)		100
Paper 4	Physiology		100
Paper 5	Anatomy & Histology		50
Paper 6	English		100
Practica	1		
Paper 7	Pharmaceutical Chemistry-I (Organic)		100
Paper 8	Pharmaceutical Chemistry-II (Biochemistry)		100
Paper 9	Pharmaceutics-I (Physical Pharmacy)		100
Paper 10	Physiology		100
Paper 11	Anatomy & Histology		50
	Total Ma	arks:	1000

### Second Professional

Theory	
Paper 1	

Paper 2

Paper 3

i apci 3	Thatmacognosy (basic)	100
Paper 4	Pharmaceutics-III (Pharmaceutical Microbiology & Immunology)	100
Paper 5	Pakistan Studies and Islamic Studies/Ethics (Compulsory)	100
Paper 6	Pharmacy Practice-I (Pharmaceutical Mathematics and Biostatistics)	100
Practical		
Paper 7	Pharmaceutics-II (Dosage Forms Science)	100
Paper 8	Pharmacology and Therapeutics-I	100
Paper 9	Pharmacognosy-I (Basic)	100
Paper 10	Pharmaceutics-III (Pharmaceutical Microbiology & Immunology)	100
	Total Marks:	1000

Pharmaceutics-II (Dosage Forms Science)

Pharmacology and Therapeutics-I

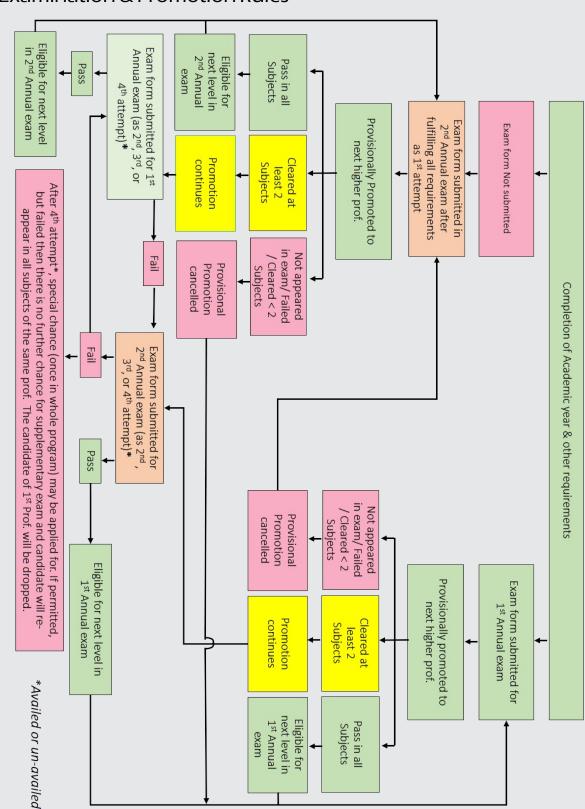
Pharmacognosy-I (Basic)

### Third Professional

Theory		
Paper 1	Pathology	50
Paper 2	Pharmacology and Therapeutics-II	100
Paper 3	Pharmacognosy-II (Advanced)	100
Paper 4	Pharmacy Practice-II (Dispensing, Community, Social & Administrative Pharmacy)	100
Paper 5	Pharmaceutical Chemistry-III (Pharmaceutical Analysis)	100
Paper 6	Pharmacy Practice -III (Computer and its Applications in Pharmacy)	50
Practica		
Paper 7	Pathology	50
Paper 8	Pharmacology and Therapeutics-II	100
Paper 9	Pharmacognosy-II (Advanced)	100
Paper 10	Pharmacy Practice-II (Dispensing, Community and Social & Administrative Pharmacy)	L00
Paper 11	Pharmaceutical Chemistry-III (Pharmaceutical Analysis)	100
Paper 12	Pharmacy Practice -III (Computer and its Applications in Pharmacy)	50
	Total Marks:	1000
Fourth	Professional	
Theory		
Paper 1	Pharmacy Practice-IV (Hospital Pharmacy)	100
Paper 2	Pharmacy Practice -V (Clinical Pharmacy-I)	100
Paper 3	Pharmaceutics-IV (Industrial Pharmacy)	100
Paper 4	Pharmaceutics-V (Biopharamceutics and Pharmacokinetics)	100
Paper 5	Pharmaceutics-VI (Pharmaceutical Quality Management)	100
Practica		100
Paper 6	Pharmacy Practice -V (Clinical Pharmacy-I)	100
Paper 7	Pharmaceutics-IV (Industrial Pharmacy)	100
Paper 8	Pharmaceutics-V (Biopharamceutics and Pharmacokinetics)	100
Paper 9	Pharmaceutics-VI (Pharmaceutical Quality Management)	100
Tuper 5	Total Marks:	900
Fifth Pr	ofessional	300
	OTC33IOTICII	
Theory	Dhanna a cutical Chanciston IV/AA disiral Chanciston	100
Paper 1	Pharmaceutical Chemistry-IV (Medicinal Chemistry)	100
Paper 2	Pharmacy Practice -VI (Advanced Clinical Pharmacy-II)	100
Paper 3	Pharmaceutics-VII (Pharmaceutical Technology)	100
Paper 4	Pharmacy Practice -VII (Forensic Pharmacy)	100
Paper 5	Pharmacy Practice-VIII (Pharmaceutical Management and Marketing)	100
Practica		100
Paper 6	Pharmaceutical Chemistry-IV (Medicinal Chemistry)	100
Paper 7	Pharmacy Practice -VI (Advanced Clinical Pharmacy-II)	100
Paper 8	Pharmaceutics-VII (Pharmaceutical Technology)	100
	Total Marks:	800
	Grand Total Marks:	4700

Note: Pass percentage in both theory and Practical examinations of Pharm. D. is 50%. The Theory and Practical Examination in each subject will be treated separately.

### **Examination & Promotion Rules**



# University Dues (Morning Class)

FACULTY OF PHARMACY	Pharm-D (Regular)/ Annual System				
1. Punjab University College of Pharmacy	Year				
1. Fee	1st	2nd	3rd	4th	5th
Admission Fee	600	600	600	600	600
Tuition Fee	1,050	1,050	1,800	1,800	1,800
Breakage Fee	1,000	1,000	1,000	1,000	1,000
1. Fee Total	2,650	2,650	3,400	3,400	3,400
2. Services					
Bus Pass Charges	3,300	3,300	3,300	3,300	3,300
Examination Fee	2,100	2,100	2,500	2,500	2,500
Field Work/Study/Industrial Tour	_	600	-	600	_
Lib. Security	1,000	_	_	_	_
Library Service	600	600	600	600	600
Mosque Fund	50	50	50	50	50
P.U. Dev. Fund	500	_	_	_	_
P.U.Medical Fee	175	175	175	175	175
P.U.S.T.C / P.U.W.S.T.C	500	500	500	500	500
Sports Development & Swimming Pool Fee	200	200	200	200	200
Sports Fund (PUTDSA)	200	200	200	200	200
Students General Fund	125	125	125	125	125
2. Services Total	8,750	8,050	7,650	8,250	7,650
3. Utilities					
Electricity Charges	1,500	1,500	1,500	1,500	1,500
P.U. Internet Facility	600	600	600	600	600
3. Utilities Total	2,100	2,100	2,100	2,100	2,100
4. Departmental Dues					
Departmental Dues	10,000	10,000	10,000	10,000	10,000
4. Departmental Dues Total	10,000	10,000	10,000	10,000	10,000
G. Total	23,500	22,600	23,150	23,750	23,150

Registration Fee

Rs. 3230/- if not already Registered

Note: All the dues are subjected to change, made by the University Authorities.

# University Dues (Evening Class)

FACULTY OF PHARMACY	Pharm-D (Self-Supporting)/ Annual System  Year				
1. Punjab University College of Pharmacy					
1. Fee	1st	2nd	3rd	4th	5th
Admission Fee	600	600	600	600	600
Breakage Fee	1,000	1,000	1,000	1,000	1,000
Tuition Fee	48,000	48,000	48,000	48,000	48,000
1. Fee Total	49,600	49,600	49,600	49,600	49,600
2. Services					
Bus Pass Charges	3,300	3,300	3,300	3,300	3,300
Examination Fee	2,100	2,100	2,500	2,500	2,500
Lib. Security	1,000	_	_	-	_
Library Service	600	600	600	600	600
Mosque Fund	50	50	50	50	50
P.U. Dev. Fund	500	_	200	_	_
P.U.Medical Fee	175	175	175	175	175
P.U.S.T.C / P.U.W.S.T.C	500	500	500	500	500
Sports Development & Swimming Pool Fee	200	200	200	200	200
Sports Fund (PUTDSA)	200	200	200	200	200
Students Welfare Fund	500	500	500	500	500
2. Services Total	9,125	7,625	8,225	8,025	8,025
3. Utilities					
Electricity Charges	1,500	1,500	1,500	1,500	1,500
P.U. Internet Facility	800	800	800	800	800
3. Utilities Total	2,300	2,300	2,300	2,300	2,300
4. Departmental Dues					
Departmental Dues	10,000	10,000	10,000	10,000	10,000
4. Departmental Dues Total	10,000	10,000	10,000	10,000	10,000
G. Total	71,025	69,525	70,125	69,925	69,925

Registration Fee

Rs. 3230/- if not already Registered

Note: All the dues are subjected to change, made by the University Authorities.



# Postgraduate Programs

# Master of Philosophy (M.Phil) in Pharmacy

The M.Phil degree is qualifications, on its own for one's career or a preparation for further education as PhD. Master of Philosophy in Pharmacy is a two year full time program for specialization in one of four fields of Pharmacy, such as:

- a. Pharmaceutics
- b. Pharmaceutical Chemistry
- c. Pharmacology
- d. Pharmacognosy

This is a mixed mode degree comprising one year course work, one year of supervised research followed by submission of research thesis.

### Doctor of Philosophy (Ph.D)

A PhD is the highest qualification obtained after an in-depth training in a particular area through original research. The research topic is given by supervisor or selected by the PhD student by the consultation of the supervisor. It must be novel and able to make a significant contribution to the existing knowledge of the field. A thesis, based on the original research is written by the student and is submitted for final assessment of the student. PhD program is a blend of course work of two semester and research or 8 semester and taking 5 year full time to complete. The taught course has been designed to prepare students for research skills and methods related to their chosen field of research:

- a. Pharmaceutics
- b. Pharmaceutical Chemistry
- c. Pharmacology
- d. Pharmacognosy

# Objectives of Postgraduate Programs

Following are the major objectives:

- 1. To prepare Scientific/Educational manpower with depth of knowledge and research competence of international level to fill positions in Research Organizations, Industry, Management, Universities, Health Care and Educational Institutions.
- 2. To establish centers of research of high quality (both fundamental and applied) in the University.
- 3. To improve the qualification, skills, and expertise of teachers/officers and thus provide competent teachers/officers at all levels of Education in Universities, Colleges and Schools.

# Number of Seats

The number of seats and the program to be offered for admissions is decided before admission based on the availability of supervisors, decision of Doctoral Programme Committee (DDPC), HEC criteria and the University's Doctoral Program Committee (DPC). One seat in each descipline for M.Phil. and one seat for overall PhD program has been allocated for graduates from university other than University of the Punjab, Lahore. Equivalence is required from Punjab University for such candidates.

# Eligibility Criteria for Admission

#### M.Phil

- (I). Pharmacy / Pharm D degree from a University/Institute recognized by the Pharmacy Council of Pakistan and HEC after having completed 16 years of education, 130 credit hours.
- (ii). Registered with (valid document required) Pharmacy Council of Pakistan

#### PhD

(I). M.Phil (Pharmacy) in respective discipline, from a University/Institute recognized by the Pharmacy Council of Pakistan and HEC.

# Admission Process and Procedure

- (i). The admission starts with the advertisement in the National Press normally during June / July
- (ii). Applications will only be accepted on a prescribed form within the due date advertised
- (iii). The application, completed in all respects shall be submitted to the admission office of the College. Do not leave any column on the application forms empty/blank. Cross the column which is not relevant for you. Put the signature, on the top right corner of each document attached.
- (iv). The Doctoral Programme Committee (DPC) shall scrutinize the applications received for eligibility on the basis of the following criteria:
  - a. Academic qualifications 40 Marks (Calculation is given under the headinng of "Breakup of 40 marks for academic qualifications" below)
  - b. Publications in HEC approved journals 05 Marks (1 Mark per Published publication)
  - c. Professional experience in relevant field 05 Marks (1 Mark for each year for job in the relevant field as decided by DPC). Only the full time experience will be considered. Unclaimed experience and/or without attached Experience Certificate, less than 6 months, Part time, internship, training and etc. will not be considered. Joining reports/letter and NOC will not be considered as Experience certificate.
  - d. Departmental entry test (Subject comprehension, General aptitude for research) 40 Marks detail is given under the heading of entry test.
  - e. Interview 10 Marks. Mention during interview wether you have HEC indigenous scholarship.



## Break up of 40 marks for academic qualifications

#### M.Phil

Course / Dogres		%age marks							
Course/ Degree		45%	50%	55%	60%	70%	≥80%		
Matric	Marks	2	4	5	7.5	8.5	10		
F.Sc.	Marks	2	4	5	7.5	8.5	10		
B. Pharmacy / Pharm-D (Annual)	Marks	4	8	10	15	17	20		
	CGPA								
B. Pharmacy / Pharm-D (Semester)			2.5	3	3.4		≥3.8		
	М	arks	10	15	17		20		

#### PhD

Course / Dogree		%age marks						
Course/ Degree		45%	50%	60%	70%	≥80%		
Matric	Marks	2	4	6	7	8		
F.Sc.	Marks	2	4	6	7	8		
B. Pharmacy / Pharm-D (Annual)	Marks	2	4	6	7	8		
M.Phil (Annual)	Marks	2	4	6	7	8		
	CGPA							
M.Phil (Semester)		3.0 CGPA / 1st Div.	3	.3	3.6	≥3.8		
	Marks	5		6	7	8		

- (v). Out of 40 marks reserved for academic qualifications, 40 marks for the departmental admission test and 10 for the interview, minimum 50% are the qualifying marks in each of the category for M.Phil However, for PhD passing marks in entry test are 70% as per HEC Policy approved by the Advanced Studies and Research Board (ASRB). That means a candidate for PhD admission must obtain at least 20 marks in the academic qualifications, 20 marks in M.Phil entrance test, 28 marks for PhD entrance test and 5 marks in the interview separately to be eligible for the admission.
- (vi). Only those candidates who qualify the written test will be called for an interview.
- (vii). The Doctoral Programme Committee shall recommend to the Dean, Faculty of Pharmacy/ Chairperson DPCC for approval of the names of applicants found eligible. The selected candidates shall pay their dues (as given in respective Section) within stipulated time, failing which their admission shall be liable to be cancelled. The DPC will approve the title/synopsis (Guidelines for the preparation of synopsis are given in respective Section). The final approval will be given by ASRB.

Note: Qualification from Institutions other than the University of the Punjab will be equalized by the Equivalence Committee of the University of the Punjab

# Admission for Foreign Students

In line with the policy of the University, we encourage the foreign students around the globe for admission to our postgraduate programs. The admission of foreign students should be processed as under:

- (i). A foreign candidate should apply through his/her Home Country's Embassy and Pakistan Mission Abroad Office (in case of overseas Pakistani) along with TOEFL or IELTS or equivalent with 5.5 score/band, all education documents and passport etc. however, PU ex-graduates will be exempted from TOEFL or IELTS or equivalent.
- (ii). The College will send a provisional admission letter to the Registrar and copy to chairperson DPCC along with HEC proforma of foreign students for clearance of the vetting agencies before joining the program.
- (iii). The candidate should also pass the entrance test of the concerned institution/admission on arrival or submit GRE International with admission form.
- (iv). After fulfilling all above requirements, the candidate will be allowed to attend classes with a valid visa.

# Admission for a Faculty member

- (I). The University policy is encouraging the University's own faculty/Officer. The workload of a teacher (appointed on regular basis) enrolled in Ph.D. Program in PU will be reduced to half. Provided that those teachers will not take any class in the evening program on payment basis in PU or other than PU. The period of Privileges regarding Ph.D. studies will be maximum up to 2 years (relaxation in work load or study leave).
- (ii). A University Teacher/Officer enrolled as a Ph.D. candidate in the University of Punjab should receive an honorarium as per policy which is revised from time to time, subject to satisfactory performance as determined by the DPC and DPCC.
- (iii). A University Teacher/Officer after completion and award of Ph.D. Degree be given an incentive as honorarium.
- (iv). The registration and tuition fee may be waived for University Teacher/Officer.

# Entry Test

# Syllabus

#### M.Phil

The course defined by the Pharmacy Council of Pakistan listed below under different disciplines of Pharmacy, forms the syllabus of the entry test:

#### **Pharmaceutics**

- 1. Industrial Pharmacy
- 2. Pharmaceutical Technology
- 3. Biopharmaceutics

#### Pharmaceutical chemistry

- 1. Pharm. Organic Chemistry
- 2. Pharm. Medicinal Chemistry
- 3. Instrumentation

#### Pharmacology

Drugs acting on cardiovascular system (CVS), non-steroidal anti-inflammatory drugs (NsAIDS), Drugs for chemotherapy, Drugs acting on the Autonomic Nervous System (ANS) and the Central Nervous System (CNS) depressants.

#### Pharmacogonosy

Pharm.D 2nd and 3rd Prof. Pharmcognosy (I & II)

#### Pharmacy Practice

- 1. Clinical Pharmacy (4th Prof.)
- 2. Hospital Pharmacy (4th Prof.)
- 3. Clinical Pharmacy (5th Prof.)

#### Ph.D

The Entry test will be based on all the major (mainstream) topics in the respective M.Phil Syllabus of the University of the Punjab, Lahore.

# Style of Entry test (40 Questions each carrying 1 mark and no negative marking)

for both, M.Phil and Ph.D the following style will be followed

- 1. Subject based MCQs 70%
- 2. Short Questions comprising of fill in the blanks/true false type 30%
- 3. Question in "1" and "2" above will make a total of 34 questions
- 4. Each of two questions will be included in verbal reasoning (English), analytical reasoning(logical thinking) and quantitative reasoning

# Facilities Provided to Postgraduate Students

M.Phil and Ph.D student shall enjoy all facilities of a regular University student such as Accommodation (depends upon the availability of seats), Transport, Library/computer lab/internet and animal house.

## Utilization of Intra and Inter Departmental Facilities

- (I). We have established postgraduate research labs in each disciplines of Pharmacy. We promote coordination, cooperation and collaboration among different departments within the University and the students enrolled in postgraduate programs, may be used any lab outside the college by attaching the expertise there as a Co-Supervisor.
- (ii). A strong liaison be established between research Organizations/Institutes (e.g. PCSIR, PINSTECH, NIAB, NIBGE, PARC, HEJ, PTB, BISE, CW) where our Ph.D. student could work for short periods to utilize their equipment facilities.
- (iii). Sandwich programme be initiated between University of the Punjab and other high tech. Labs Universities in Europe and U.S.A. (e.g. DAAD, extends this facility to developing countries.)

## Funding and Scholarships

A limited number of scholarships are also available for M. Phil and Ph.D. students. Which will be awarded on merit after completing the course work.

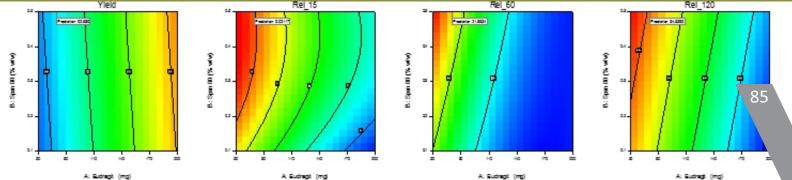
- (I). Recently we have signed a MoU with the Pakistan Pharmaceutical Manufacturing Association to seek the possibility of raising funds. We will attempt to gear up to solve scientific problems encountered by the industry for this purpose.
- (ii). We are also coordinating with Ministry of Science & Technology, Govt. of the Punjab , HEC etc. for funding (JAICA & other international agencies).

### Gold Medal

- (i) Ch. Fazal Din gold medal is awarded every year to a student who stands first in M. Phil. Part-11 (Pharm. Chemistry) 1st Annual Examination.
- (ii) Nawaz Memorial gold medal is awarded yearly to a student who stands first in M. Phil. Part-11 (Pharmaceutics) 1st Annual Examination.

### Academic Calendar

On completion of admission Academic Calender will be provided/displayed on the notice board showing dates for Mid & Final Term Exams, Declaration of results, submission of thesis for M.Pil program. For Ph.D program, along with the above the dates of submission of synopsis will be given.



# Course Work

#### M.Phil

#### Pharmaceutical Chemistry

First Semester

Course Title

PCHEM-711 Bio Statistics

PCHEM-712 Analytical Chemistry

PCHEM-713 Pharmaceutical Chemistry Lab

PCHEM-714 Drug Design PCHEM-715 Drug Stability

Second Semester

Course Title

PCHEM-721 Combinational Chemistry PCHEM-722 Chromatographic Analysis

PCHEM-723 Polymers

PCHEM-724 Pharmaceutical Lab PCHEM-725 Research Methodology

Third Semester

PCHEM-731 Research and Seminar

Fourth Semester

PCHEM-741 Research and Seminar

Pharmacology First Semester

Course Title

PCOL-711 Bio Statistics

PCOL-712 Advanced Concepts of General Pharmacology

PCOL-713 Pharmacology Lab
PCOL-714 Systems Pharmacology
PCOL-715 Biochemical Pharmacology

Second Semester

Course Title

PCOL-721 Chemotherapy
PCOL-722 Pharmacology Lab
PCOL-723 Neuropharmacology

PCOL-724 Toxicology Pharmacology for Critical Care Patients

PCOL-725 Research Methodology and Research

Third Semester

PCOL-731 Research and Seminar

Fourth Semester

PCOL-741 Research and Seminar

Pharmacognosy First Semester

Course

PCOG-711 Bio Statistics (Theory)

PCOG-712 Advances in Pharmacognosy (Theory)

Title

PCOG-713 Pharmacognosy Lab

PCOG-714 Biosynthesis of Natural Products (Theory)

PCOG-715 Plant Toxicology (Theory)

Second Semester

Course Title

PCOG-721 Phytochemicals of Natural Origin (Theory)

PCOG-722 Phytochemical Analysis (Lab) PCOG-723 Cell Biotechnology (Theory)

PCOG-724 Alternative Medicines and Herbal Drugs PCOG-725 Research Methodology and Seminars

**Third Semester** 

PCOG-731 Research and Seminar

Fourth Semester

PCOG-741 Research and Seminar

Pharmacy Practice

First Semester

CourseTitlePPRAC-711Bio Statistics

PPRAC-712 Community Pharmacy and Public Health

PPRAC-713 Clinical Pharmacotherapeutics - I PPRAC-714 Clinical Pharmacokinetics PPRAC-715 Clerkship / Seminar / Workshop

Second Semester

Course Title

PPRAC-721 Research Methodology and Study Design

PPRAC-722 Advance Pharmacy Practice
PPRAC-723 Clinical Pharmacotherapeutics - II

PPRAC-724 Elective Courses

(Oncology / Diabetes / Psychiatric Disorder / Cardiovascular diseases /

Infectious diseases)

PPRAC-725 Clerkship / Seminar / Workshop

Third Semester

PPRAC-731 Research Work and Thesis

**Fourth Semester** 

PPRAC-741 Research Work and Thesis

**Pharmaceutics** First Semester

Course

Title PCEU-711 **Bio Statistics** 

**PCEU-712 Advances Pharmaceutics PCEU-713** Pharmaceutics Lab PCEU-714 Biopharmaceutics

PCEU-715 Pharmaceutical Microbiology

Second Semester

Course Title **PCEU-721** Pharmaceutical Technology

PCEU-722 Pharm. Tech. Lab **PCEU-723** Clinical Pharmacy

PCEU-724 Pharmaceutical Marketing **PCEU-725** Research Methodology

Third Semester

PCEU-731 Research and Seminar

Fourth Semester

PCOG-741 Research and Seminar



#### **Duration of Studies**

- (i). M.Phil course will be for four semesters. In first two semesters, 24 credit hours course work and in 3rd and 4th semesters 6 credit hour research work will be carried out.
- (ii). The research work submitted for M.Phil. will not be part of PhD thesis.
- (iii). Maximum permissible period for the completion of Ph.D. will be 5 years. The period shall be counted from the date of commencement of classes of Ph.D. programme.
- (iv). The minimum period of completion of Ph.D. programme shall be 3 years (one year 18 credit hours course work for Ph.D., comprehensive examination, synopsis; two years research). After 5 years, the scholar shall cease to be the student of the University and shall not generally be eligible for readmission.
- (v). The PhD candidate has to take course work of 18 credit hours.
- (vi). Candidates from Scientific Research Organizations, after successful completion of course work, may carry out their experimental work in laboratories of their parent departments on the recommendations of the supervisor, approved by the DPC, at the time of approval of the synopsis.
- (vii). A Ph.D. student shall be required to pass a comprehensive examination (written) within one month after completing course work, and before undertaking the synopsis/research work.
- (viii). A Ph.D. student shall be required to submit synopsis within six month of completing course work and before commencing the research work.
- (ix). A Ph.D. student will give a seminar relevant to his/her field of research at his/her convenience within a year of submission of synopsis to the department for the approval of various statutory bodies such as DPCC/Advanced Studies & Research Board.

# Examination (Course Work)

Approved course contents by the DPC of each department and by the other relevant bodies will be taught.

- (I). There will be two three semesters in each year, winter, spring and summer (optional), of 16-18 weeks each (winter and spring) with a minimum of 14-16 weeks for the course work, summer semester will be of 8-10 weeks. The DPCC shall regulate the commencement of the semesters. The first semester shall normally start on second Monday of September each year and terminate by first week of January. The second semester shall start on the 4th Monday of the January and its examinations shall be held in 3rd week of May. Summer semester shall commence in third week of June and end by fourth week of August. For M.Phil two semesters of course work and one-two semesters of research / internship (6 credit hours) will be mandatory which normally has to be completed within two years.
- (ii). For Ph.D., from the second Monday of September, the students who have maintained CGPA ≥ 3.0 in M.Phil shall undertake additional course work/ Research techniques training equivalent to 18 credit hours. In case of commencement of research in Summer semester Ph.D. course work shall start in Spring semester.
- (iii). There shall be a Comprehensive Examination within one month after completing the Ph.D. course work
- (iv). The student will write and submit synopsis for Ph.D. research work within six months of completing the Ph.D. course work.



#### Ph.D

#### **Phamaceutical Chemistry**

First Semester

Course Title

P.CHEM-811 Drug Discover

P.CHEM-813 Structure Activity Relationship

P. CHEM-815 Metal Complexes

Second Semester

Course Title

P. CHEM-817 Biological Membranes

P. CHEM-819 Drug Solubility

P. CHEM-821 Drug Properties and Pharmaceutical Calculations

Pharmaceutics First Semester

Course Title

PCEU-811 Pharmaceutical Statistics
PCEU-813 Advance Bio Pharmaceutics

PCEU-815 Advanced Pharmaceutical Technology

Second Semester

Course Title

PCEU-817 Pharmaceutical Care PCEU-819 Biopharmaceuticals

PCEU-821 Rate Controlled Drug Delivery System

#### Pharmacogonosy

#### **Titles of Course**

- Medicinal Properties of Plants; their Antibactcrial, Antifungal And Antiviral activites.
- 2. Choice in Alternative Medicines,\_ Aroma-therapy. Ayurvedie, Chines Medicines, Acupunture, Homoeopathy and Spiritual Healing:
- 3. Biologically Active Compounds from Marine Organisms
- 4. Phytochemical/Chemotaxonomic Diversity within the Plant Species of Medicinal Importance.
- 5. Phytochemical bases of Contract Allergy and Irritancy caused by plants and Natural Plant Products. Their mechanisms of action and Antigenic Principles.
- 6. Biotechnological Application in Biosynthetic Research of various Secondary Metabolites in Plants, through Plant Tissue Culture Techniques.

#### Pharmacology First Semester

Course Title

P. Col-811 Research Methodology

P. Col-813 Battery of Pharmacological Test

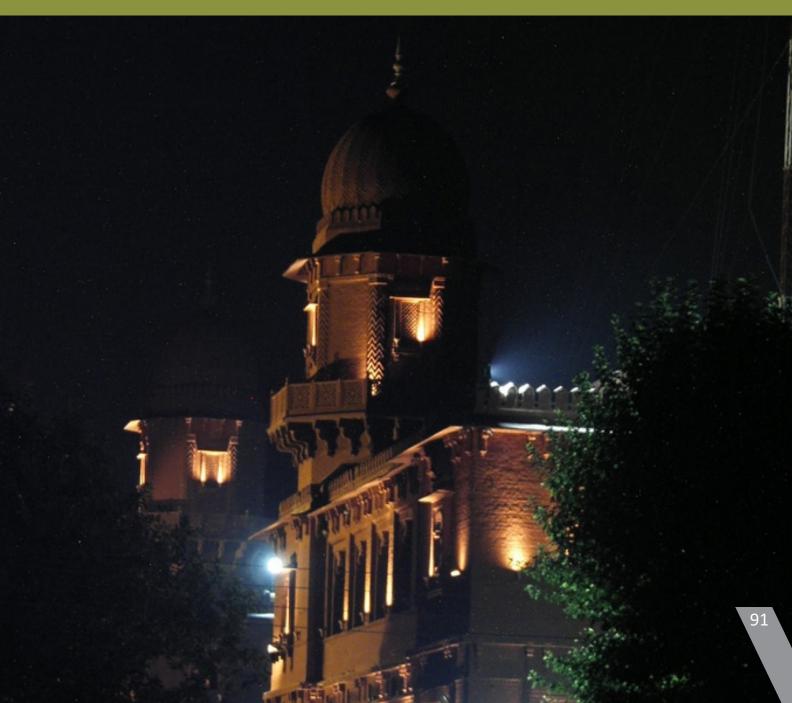
P. Col-815 Metabolic Disorders

Second Semester

Course Title

P.Col-817 Systemic Anti-infective Agents
P.Col-819 Local Anti Infective Agents
P.Col-821 Neoplastic disorders

(v). There shall be two examinations for each course during each semester. These examinations shall be termed as mid semester (mid-term) and the final term. The mid semester examination shall be held during 8th week of each semester. The final examination is to be held at the end of the semester. (Marks: Mid term 35%, Assignments 25%, Final examination 40%). In addition to these examinations, the teacher shall give Assignments, term papers, quizzes etc. The result of a course will be submitted after one week of examination and result will be notified after two week of completion of examination. The DPC shall be responsible for supervising the teaching, examination and their related matters. The DPC may also review the evaluation of any student/class if it deems appropriate within one week of submission of result. The result of semesters as well as comprehensive examinations shall be communicated to DPCC within two weeks of announcement of result



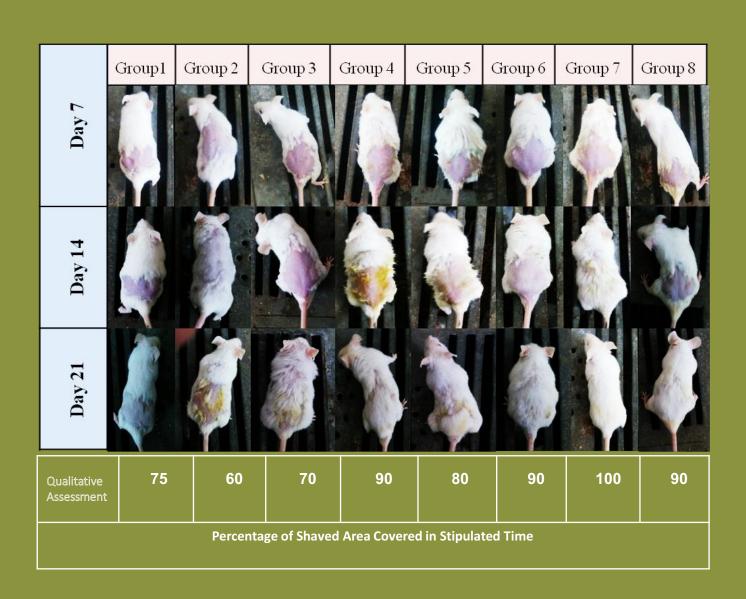
## Comprehensive Examination

- (i). Students admitted to Ph.D., course shall take comprehensive examination after successful completion of 18 credit hours course work. The Comprehensive Examination shall be held within one month after the completion of the course work.
- (ii). The comprehensive examination will cover all course work and will consist of one composite paper (50 70% objective; 30 50% subjective). The examination will test the student's ability to integrate and assimilate the knowledge obtained from the courses, seminars and independent studies.
- (iii). Examiners (3-5 including Internals) for the comprehensive examination shall be appointed by the Dean out of a panel of names recommended by the Doctoral Programme Committee. At least 2 examiners will be from out side the University.
- (iv). To pass the comprehensive examination, a student must get GP/GPA not less than 3.0.
- (v). If the student does not pass the comprehensive examination or doesn't get at least GPA 3.0, in the first attempt but ≥ 2.80 he/ she may be given one more chance on the recommendation of his Supervisor and departmental Doctoral Programme Committee. Similarly, a student who remains absent during the comprehensive examination will only be given a second chance to sit in the examination subject to a condition that his/her circumstances of not being able to attend the examination are well justified and accepted by the concerned DPC. On the recommendations of the concerned DPC, the Dean/DPCC may allow such a student to reappear. The second Comprehensive Examination shall be held within one month of the first examination.
- (vi). For Ph.D. from the second Monday of the September (or earlier in Summer semester), the students who have maintained CGPA 3.0 in M.Phil 30 credit hours (or 24+6 credit hours) shall undertake course work/ Research techniques training (for experimental sciences) equivalent to 18 credit hours.

# Synopsis for PhD

- (i). After securing a minimum of CGPA 3.0 in the course work/ comprehensive examination of 18 credit hours, a student shall prepare a synopsis for PhD research work within the next 6 months. The synopsis should normally be submitted by 31st August of the same year in which a student passes the course work/ comprehensive examination for Ph.D. Guidelines for synopsis write-up are given in the respective Section. The synopsis has to be recommended by the DPC for approval from Advanced Studies and Research Board.
- (ii). Students will submit copies of their synopses to the Departmental Doctoral Programme Committee (DPC) and one copy to the Punjab University Doctoral Programme Co-ordination Committee (DPCC) for approval.
- (iii). The Departmental Doctoral Programme Committee (DPC), after evaluation, shall forward the synopsis within a period of three months to the DPCC for approval of the Advanced Studies and Research Board (ASRB).
- (iv). In case the DPC fails to forward the synopsis within three months, the DPCC will directly forward the synopsis to the Advanced Studies and Research Board for approval.
- (v). Panel of Examiners for Ph.D. thesis evaluation shall also be routed through DPC/DPCC to ASRB for approval

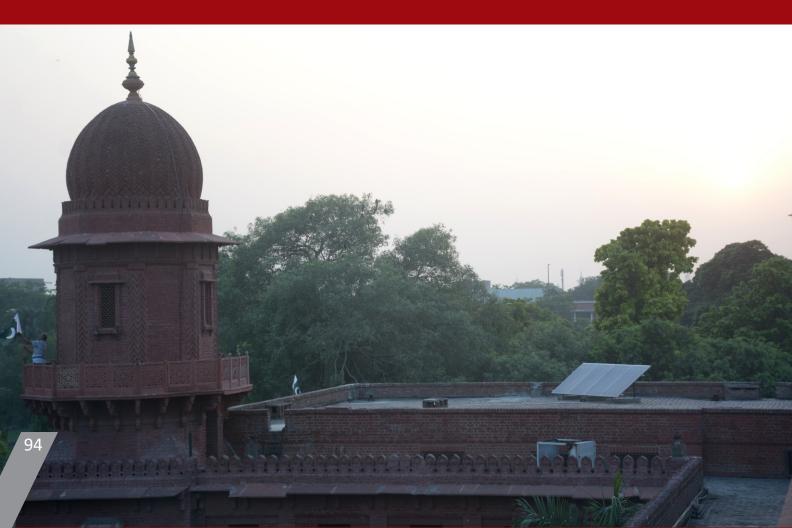
- (vi). The Departmental Doctoral Programme Committee (DPC), after evaluation, shall forward the panel of Examiners within a period of one month to the DPCC for approval of the Advanced Studies and Research Board (ASRB).
- (vii). Supervisor will submit a copy of the Panel of Examiners for Ph.D. thesis evaluation to the Punjab University Doctoral Programme Co-ordination Committee (DPCC).
- (viii). In case the DPC fails to forward the Panel of Examiners within one month, the DPCC will directly forward the Panel of Examiners to the Advanced Studies and Research Board for approval.





# Guidelines for Preparation of Synopsis The applicants should organize Thesis Synopsis to address the following points:

а	Title	The title should be brief but informative.
b	Table of Contents	
С	Introduction	Should clearly manifest why the present work is undertaken. The introduction may include literature review as per requirement of the subject.
d	Literature review	Place the project in academic context by referring to the major work by others on the topic.
е	Objectives	Define clearly the aims of the research proposal.
f	Research <b>Questions or</b>	Research questions or hypothesis related to objectives of the research.
	Hypothesis	
g	Significance	The significance of the proposal for the field and the country.
h	Research Design and Methods	Explain the approach and methods to be followed. Details pertaining to design
		of experiments and the data analysis should also be given.
i	Plan	Give year wise tentative plan of the work.
j	List of Literature cited /	Up to date references. Preferably APA style should be followed.
	References	



# Thesis Submission

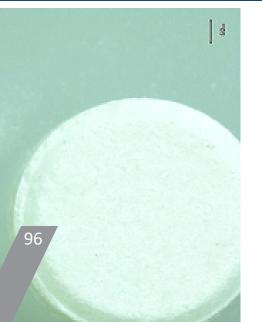
#### M.Phil

- (i). A regular student will normally be required to take workload (for course work) of six to twelve credit hours in each semester.
- (ii). At the end of the first semester a student must obtain a minimum Grade Point average (GPA) of 2.50 to be promoted to the second semester. In order to qualify a course GP 2.30 required.
- (iii). In case a student is able to obtain GPA of 2.30 or more but less than 2.50 he / she will be promoted to the second Semester on probation. The candidate, who fails to secure 2.30 GPA in the first Semester shall stand automatically dropped from the rolls.
- (iv). At the end of the second semester, a student must obtain a minimum Cumulative Grade Point Average (CGPA) of 2.50 and must also pass at least 50% of the courses offered by him / her in order to be promoted to the third semester. If any of the preceding two conditions is not complied with by a student then he / she shall be removed from the rolls of the College.
- (v). In the 3rd or 3rd and 4th semesters a student will carry out research work under the supervision of his / her supervisor and submit research thesis end of 3rd or 4th semester.
- (vi). In the third semester a student will also be required to repeat those courses of the first semester in which he/she had failed and maintains CGPA of 2.50 failing which his / her name will be removed from the College.
- (vii). In the fourth semester, a student will be required to repeat those courses of the second semester in which he / she had failed and maintains CGPA of 2.50 failing which his / her name will be removed from the College.
- (viii). A student, who completes all the courses and has not been required to repeat any course(s), obtains CGPA of less than 2.50 but not less than 2.30 at the end of the 4th semester, may be allowed to repeat up to two courses (varying 2-6 credits) in which he / she had obtained the lowest grades, in order to improve the CGPA so as to obtain the minimum of 2.50 failing which he / she shall not be awarded degree and removed from the rolls of the College.
- (ix). A student who had earned 'F' grade in a course in 1st semester may be allowed to take one additional course during the 2nd/3rd semester with the permission of the DPC of the College.
- (x). A student who had earned 'F' grade in a course in 2nd semester may be allowed to take one additional course during the 3rd/4th semester with the permission of the DPC of the College
- (xi). The teacher shall send a copy of the activity record of the courses on prescribed Performa to the DPC, Chairman/Principal at the end of each semester.
- (xii). After two semesters (24 credit hours) of course work, research work of six credit hours will be carried out in third and fourth semesters. Title of the thesis will be recommended by DPC routed through DPCC for the approval of the Vice-Chancellor. Thesis shall be submitted within six weeks after the termination of fourth semester (as the case may be). In case of genuine reason on the recommendation of the supervisor, DPC, DPCC Vice Chancellor can give extension up to six months for the submission of thesis/report/project. Evaluation of thesis will be by External Examiner. Board of Examiners for the examination of thesis shall be appointed by the Vice Chancellor out of the panel recommended by DPC concerned routed through DPCC. Evaluation normally be completed within six weeks of submission of the theses.
- (xiii). Only those students who scored CGPA ≥ 2.5 will be awarded M.Phil. Degree.

#### **PhD**

- (i). Candidate has to complete 18 credit hours course work, qualify comprehensive examination and carry out research for 2-4 years.
- (ii). A regular student will normally be required to take workload of eight to fifteen credit hours in each semester. Eighteen credit hours course work must be completed within two semesters
- (iii). At the end of the first semester a student must obtain a minimum Grade Point Average (GPA) of 3.00 to be promoted to the second semester. In order to qualify a course GP 2.70 required.
- (iv). In case a student is able to obtain GPA of 2.80 or more but less than 3.00 he / she will be promoted to the second Semester on probation. The candidate, who fails to secure 2.80 GPA in the first Semester, shall stand automatically dropped from the rolls.
- (v). At the end of the second semester, a student must obtain a minimum Cumulative Grade Point Average (CGPA) of 3.00 and must also pass all the courses offered by him / her in order to be promoted to the third semester for research. If any of the preceding two conditions is not complied with by a student then he / she shall be removed from the rolls of the College.
- (vi). A student, who completes all the courses and has not been required to repeat any course(s), obtains CGPA of less than 3.00 but not less than 2.80 at the end of the 2nd semester, may be allowed to repeat one course (varying 2-4 credits) in which he / she had obtained the lowest grades in the next semester, in order to improve the CGPA so as to obtain the minimum of 3.00 failing which he / she shall not be awarded degree (or allowed to continue research work) and removed from the rolls of the College.
- (vii). A student who had earned 'F' grade in a course in first semester may be allowed to take one additional special course in second semester.
- (viii). The teacher shall send a copy of the activity record of the courses on prescribed Performa to the DPC, Chairman / Director / Principal at the end of each semester.

**Note:** No student will take any course unless he has cleared the pre-requisite for it as determined by the respective College.







# **Guidelines for Thesis Format**

#### Ph. D. Thesis

All theses presented in typescript for the degree of Ph.D should comply with the following specifications unless permission to do otherwise is obtained from the relevant authority/body

#### Size of the Paper

A4. size be used, no restriction is placed on drawings and maps

#### Paper Specification

Six copies on good quality paper (minimum 80 g) be submitted

#### Method of Production

The text must be typewritten in acceptable typeface and the original typescript (or copy of equal quality) must normally be submitted as the first copy. The second and subsequent copies may be produced by means of other acceptable copying methods.

#### Layout of Script

As per the selected research manual / styles (Harvard/APA/MLA), Typescript should appear on one side only, lines at least one-and-a-half spaced. Footnotes, quotations, references and photographic captions may be single-spaced. Where appropriate, these should contain lists giving the locations of figures and illustrations.

#### Font Size

Title Page 18-22 Headings / subheadings 14-20 Text 10-12 Footnotes 8-10

Footnotes be given on the same page where reference is quoted

#### Type Style

Time New Roman / Arial / Courier New

#### **Margins**

At least 1% - 1% inches (3.17-3.81 cm) on the left-hand side, 3/4-1 inch (2-2.54 cm) at the top and bottom of the page, and about % -0.75 inches (1.27-1.90 cm) at the outer edge. The best position for the page number is at top-right % inch (1.27 cm) below the edge. Page containing figures and illustration should also be suitably paginated.

#### The Preferable Layout of Thesis

Title Page

Abstract / Summary

Acknowledgments

Abbreviations not described in the text

Contents

List of Tables (where applicable)

List of Figures (where applicable)

Introduction (including literature review) or

Introduction

Review of Literature

As separate chapters as per requisite of the subject

Research Design / Material / Methods

**Findings and Discussion** 

May comprise of one chapter or a number of chapters depending upon the Subject matter / requirements

Conclusion/s, Recommendation/s where applicable

Reference of the Literature Cited

Appendices (where applicable)

Any other information specific to the respective discipline

#### Title Page

All theses must contain a title page giving the title of the thesis, the author's name, the name of the degree for which it is presented, the department in which the author has worked or the Faculty of which the work is being presented, and the month and year of submission.

#### Length of Thesis

Whilst the regulations do not contain a clause relating to the maximum length of theses, it is expected that work presented for the degree of Ph.D should normally between 40,000 - 120,000 words of text. Candidates wishing to greatly exceed theses sizes should discuss the matter with their supervisors/DPC.

#### **Published Work**

Published work from the theses be included as appendix (Reprints/proof/preprint.)

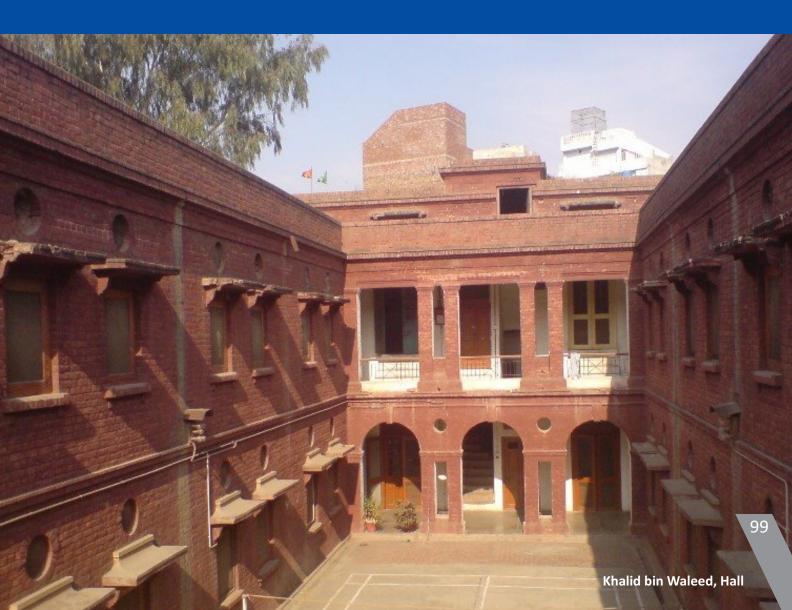
#### Binding

All final theses and published work presented for higher degrees initially in a temporary form (spiral/tape) binding will be provided after defense of the thesis form approved by the Advanced Studies and Research Board; where printed pamphlets or off-prints are submitted in support of a thesis, they must be bound in with the thesis, or bound in such a manner as Binderies may advise. Front cover should give title of the thesis, name of the candidate and the name of the Departments / Centres / Institutes / Colleges / School through which submitted, in the same order from top to bottom. The lettering may be in boldface and properly spaced. Their sizes should be: title 24 pt. name of the department/ institute/ centre/ college 18 pt. The colour of binding for different degrees in the Science subjects and in Social Sciences is as follows:

Program of study	Science Subjects
Ph.D	Dark Maroon OR Dark Gray
M.Phil	Dark Green OR Black

### Spine of Thesis

Spine of the thesis should show "Ph.D thesis" on top across the width of spine, name of the candidate in the middle along the length of spine, and the year of submission across the width at the bottom. Lettering on spine should be in 18 pt. and may be in boldface.





#### Thesis Examination

#### M Phil Research / Thesis

The research thesis shall be submitted within the specified period of registration or up to a maximum of six weeks after the final examination at the end of 4th Semester. The Vice-Chancellor on the recommendations of the respective DPC, to avoid any hardship in genuine cases, shall have the power to extend the date of submission of thesis for a total period not exceeding six months.

- (i). A Board of Examiners for the evaluation of thesis shall be appointed by the Vice-Chancellor out of the panel of three experts recommended by the DPC / Board of Studies concerned.
- (ii). The Board of Examiners shall comprise:
  - a) Principal of the College (Ex-Officio)
  - b) External Examiner (One)
  - c) Research Supervisor/s (Internal/s)
- (iii). The candidate shall have to appear before the Board of Examiners for the assessment of his/ her thesis and comprehensive examination. The Board of Examiners shall either accept or defer for resubmission or reject the thesis.
- (iv). No degree shall be awarded unless the Board of Examiners recommend the award.
- (v). If the Board of Examiners find that the thesis is wholly inadequate, the thesis shall be rejected.
- (vi). If the thesis, though inadequate, is of sufficient merit, in the opinion of at least two examiners including the external examiner, the Board of Examiners may recommend to re-submit it in a revised form within a period of six months.
- (vii). The Chairman/Director/Principal shall forward to DPCC and the Controller of Examinations the names and particulars of successful candidates for award of the Degree of M.Phil.
- (viii). On receipt of the names of successful candidates from the Chairman/Director/Principal/School, the Controller of Examinations shall issue a result notification.

#### Ph D Thesis

The thesis (guidelines for the thesis format given in the respective Section) submitted by the candidate for Ph.D. degree must comply with the following conditions: -

- (i). It must form a distinct contribution to knowledge and afford evidence of originality, shown either by the discovery of new facts or by the exercise of independent critical judgment.
- (ii). It must not include research work for which degree has been conferred on anybody in this or any other University.
- (iii). For candidates in Faculties of Behavioral and Social Sciences, Arts and Humanities (except Department of French or other modern languages where thesis be written in French language or respective language), Economics and Management Sciences, Commerce, Law, Engineering and Technology, Life Sciences, Sciences, Pharmacy, Medicine and Dentistry and Education the thesis must be written in English and the presentation must be satisfactory for publication. In Faculties of Islamic Studies & Oriental Learning, each Department shall decide about the Language (English/Urdu/any other) in which the dissertation is to be written. However in case of Urdu / any other language, an abstract in English shall be included.
- (iv). A 1-3 (to be decided by the faculty) publication in HEC approved journals (see HEC website) is requisite for thesis submission.
- (v). Any part of the thesis that has been published before submission of the thesis must be appended at the end of the thesis.

- (vi). The candidate shall submit through his supervisor five copies (6 copies in case of co-supervisor or supervisors) of his thesis typed or printed, along with 5/6 copies of a short abstract of about 1000 words and a CD of the thesis after qualifying Ph.D.
- (vii). The candidate shall pay the prescribed fee for the examination at the time of submission of thesis.
- (viii). The candidate shall at the time of thesis submission supply the documents as per university requirements.



#### Thesis Examiners

- (I). The DPC (with co-opted members) will recommend to the Advanced Studies and Research Board to approve a panel of External Examiners of six experts (foreign from technically advanced countries – for thesis evaluation and local – for viva voce exam) for evaluation of thesis before submission or at the time of submission of thesis.
- (ii). The Vice-Chancellor shall appoint two External Examiners.
- (iii). The Controller of Examinations shall get thesis evaluated within six months after the date of submission/resubmission of thesis to his office. Any delay beyond six months be brought to the notice of the Vice-Chancellor immediately.
- (iv). No degree shall be awarded unless all Examiners recommend the award of the degree. While recommending the award of degree, the examiners shall also report whether or not the thesis is fit for publication both from the point of view of content and language.
- (v). If both External Examiners find that the thesis is wholly inadequate the candidate will be asked for additional research work of maximum of one year.
- (vi). If one of the External Examiners approves the thesis and the other rejects, it shall be sent to a fresh (3rd) examiner, for evaluation. If this new (3rd) examiner disapproves the thesis, the candidate shall be declared to have failed. In case of approval of the thesis by the 3rd examiner, the case shall be processed further for the thesis defense.
- (vii). If any of the examiners adjudges the thesis inadequate and suggests major modification/revision of the thesis, the candidate will be required to re-submit a Revised Version of the thesis within one year. He will be required to pay fresh fee for the examination.
- (viii). The same examiner who suggests modification of the thesis, but not recommended the award of Degree, shall evaluate the Revised Version of the thesis.
- (ix). If Examiner suggests modification/ corrections and also recommends the award of Ph.D degree, the candidate will make changes within three months. The corrections/ modifications/ changes in the revised version will be verified by the supervisor and Dean of the Faculty.
- (x). If any of the examiners finds the thesis adequate but suggests minor modifications/ revision, this may be incorporated and certified by the thesis supervisor (Internal Examiner) and Dean of the relevant faculty.
- (xi). If the thesis is adjudged as adequate by all the Examiners and accepted by the Advanced Studies and Research Board, the scholar shall be required to undergo a Viva-Voce Examination to be conducted by one External Examiner (local) and Supervisor/s.
- (xii). One examiner for viva-voce examination should be appointed from within Pakistan from the approved panel.
- (xiii). Examiners may have separate viva-voce examination which will be followed by Public Defese.
- (xiv). The Viva Voce Examination shall be open to the public (public defense) but only the Examiners appointed for this purpose will do the evaluation.
- (xv). If the scholar fails to satisfy the examiners in the viva-voce examination, they may require the scholar to defend the thesis for the second (and the final) time within a period of six months.
- (xvi). If the scholar passes the Viva Voce Examination, the Syndicate on the recommendation of the Advanced Studies and Research Board will approve the reports of the examiners for the thesis and oral examination and award of the degree of DOCTOR OF PHILOSOPHY in the relevant subject to the candidate.

# Grading system

Equivalence in numerical grades. Letter grades and grade points will be as follows:

<b>Percent Marks</b>	Letter Grade	<b>Grade Points</b>
85 & Above	А	4.00
80-84	A-	3.70
75-79	B+	3.30
70-74	В	3.00
65-69	B-	2.70
61-64	C+	2.30
58-60	С	2.00
55-57	C-	1.70
50-54	D	1.00
Below 50	F	0.00

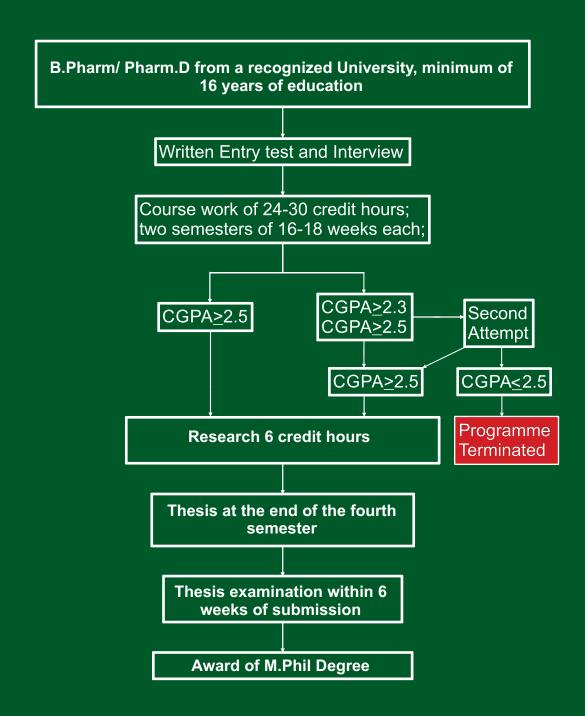
- (i). Maximum possible Grade Point Average is 4.00.
- (ii). Minimum Cumulative Grade Point Average for obtaining 2 year M.Phil (course work and comprehensive) is 2.50. In order to qualify in the examination of semester a student must obtain at least GPA 2.50 and in individual subject not less than 2.30.
- (iii). If GPA/ CGPA of a student remains < 2.50 (but > 2.30) the student shall be given one chance (only once) to repeat two subjects (2-6 Credit Hours) in order to improve CGPA in M.Phil. If GPA/CGPA of a student remain < 2.50 he/ she shall be dropped from studies.
- (iv). Minimum Cumulative Grade Point Average for PhD (course work and comprehensive) is 3.00. (For detail see the respective Sections).
- (v). A fraction of mark in a course is to be counted as '1' mark e.g. 64.1 or 64.9 is to be shown as 65.
- (vi). Letter Grade and Grade Point for a course will be calculated as given above.
- (vii). For calculating GPA and CGPA refer to the formulae below.

GPA = (GP x Credit Hours) x Number of Courses in a Semester Total Credit Hours of a Semester

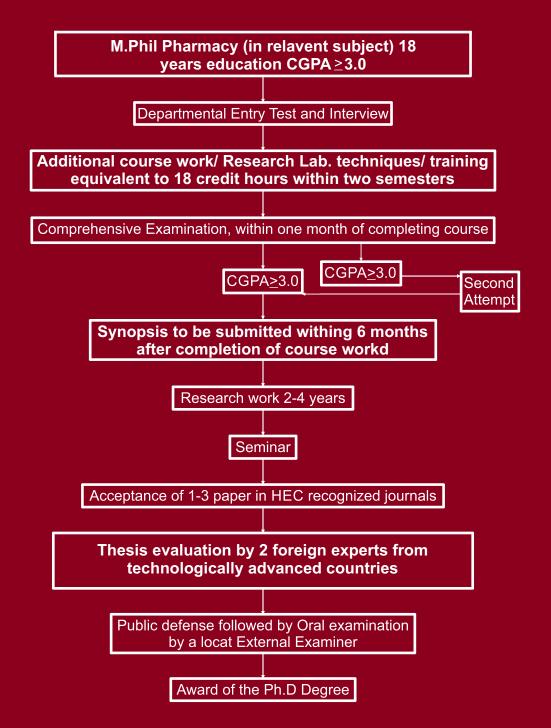
 $CGPA = \frac{(GP \times Credit \text{ Hours of all Courses in a Program})}{Total Credit \text{ Hours of all Courses in that Program}}$ 



# Criteria for Awarding Postgraduate Degree



#### Ph.D



# Code of Conduct and Regulations

Same code of conduct, Regulation and policies given in Pharm. D Seciton will be applicable to the postgraduate scholars.

#### Attendance

- (I). Only those students, who have attended not less than 75% of lectures and practicals separately in each course, shall be eligible for admission to such examination.
- (ii). A teacher shall report the names of the students who are absent from the lectures/practicals continuously for 14 days (consecutive two weeks) to the Principal of College who will forward the names of the student/s to the Dean/DPCC to enable him/her to strike off the names of such student/s. The Dean/DPCC may for valid reasons readmit such a student/s on the recommendation of DPC.
- (iii). The teacher shall send the final award list to the Principal of the College who will forward it to the DPCC, Controller of Examinations and a copy to the respective Dean.

**Note**: Rules and Regulations may be changed without prior information and the college will follow the current Rules and Regulations

## Freezing of Semester

The freezing of second semester to onward will be dealt on case to case basis by the DPCC office.

### Re-sit Examination

The students who cannot appear in examination because of genuine excuse / reason shall be allowed to appear in re-sit examination within one week after the examination subject to the payment of special examination fee of Rupees 5000/- for one course. If the number of courses is more than one then a lump sum of Rs. 10,000/- shall paid as special examination fee to the department.

### Re-admission on Medical/Emergency Grounds

A student who discontinues studies on medical/emergency ground will be allowed to seek readmission in the same semester next year after paying semester fees. During the period of discontinuation of studies the hostel, medical and transport facilities shall be withdrawn which are normally available to regular students. If they fail to appear next year, the admission should be considered cancelled.

# Cancellation of Admission/Registration M. Phil

M. Phil admission shall be cancelled by the department on the recommendation of the DPC and notified by the Principal, if the Scholar:

- (i). Earns adverse progress reports from his supervisor
- (ii). Fails to contact his supervisor or leaves the program
- (iii). Does not complete the course work
- (iv). Does not meet 75% attendance criteria in theory and practical separately
- (v). Is found guilty of misconduct

The aggrieved scholar may file an appeal against cancellation of M.Phil admission to the Dean of Pharmacy within a period of 15 days. The Dean will give him/her an opportunity to be heard in person and the case will be send with the Comments of Dean through DPCC to the Vice-Chancellor for final approval/decision. The final decision will be notified by the Registrar office.

#### Ph. D

Ph.D. Registration shall be cancelled by the Registrar on the recommendations of the Chairperson/DPC, Doctoral Programme Coordination Committee followed by the approval of the Vice-Chancellor, if the scholar:-

- (i). earns two consecutive adverse progress reports from his supervisor.
- (ii). fails to contact his supervisor or leaves the programme
- (iii). does not complete the course work
- (iv). does not qualify the Comprehensive Examination even in the second attempt
- (v). does not meet 75% attendance criteria in theory and Practical separately
- (vi). is found guilty of misconduct.

The aggrieved scholar may file an appeal against cancellation of Ph.D. registration to the Advanced Studies and Research Board within a period of 30 days. The Advanced Studies and Research Board will give him an opportunity to be heard in person. However, the decision of the Advanced Studies and Research Board will be final and will not be questioned in any court of law.



# Fee Structure for M.Phil Morning

1.Fee	1st	2nd	3rd	4th					
Admission Fee	300	300	300	300					
Tuition Fee	2600	2600	2600	2600					
Fee Total	2900	2900	2900	2900					
2.Services	2.Services								
Breakage Fee (Science Departments)	500	500	500	500					
Bus Pass Charges	1650	1650	1650	1650					
Examination Fee / Thesis*	3475	3475	4725	4725					
Lib. Service	1000	-	-	-					
Library Service	300	300	300	300					
Mosque Maintenance Fund	50	-	50	-					
P.U. Dev. Fund	500	-	-	-					
P.U. Medical Fee	175	-	175	-					
P.U.S.T.C/P.U.W.ST.C	500	-	500	-					
Sports Development & Swimming Pool Fee	200	-	200	-					
Sports Fund(PUTDSA)	200	-	200	-					
Students General Fund	125	-	125	-					
Services Total	8,675	5,925	8,425	7,175					
3.Utilities									
Electricity Charges	750	750	750	750					
P.U. Internet Facility	600	-	600	-					
Utilities Total	1,350	750	1,350	750					
4.Departmental Dues	4. Departmental Dues								
Departmental Dues	7,000	7,000	7,000	7,000					
Departmental Dues Total	7,000	7,000	7,000	7,000					
G. Total	19,925	16,575	19,675	17,825					

# Fee Structure for M.Phil Self Supporting Evening

1.Fee	1st	2nd	3rd	4th						
Admission Fee	300	300	300	300						
Tuition Fee	38,000	38,000	38,000	38,000						
Fee Total	38,300	38,300	38,300	38,300						
2.Services										
Breakage Fee (Science Departments)	500	500	500	500						
Bus Pass Charges	1650	1650	1650	1650						
Examination Fee / Thesis*	3475	3475	4725	4725						
Lib. Service	1000	-	-	-						
Library Service	300	300	300	300						
Mosque Maintenance Fund	50	-	50	-						
P.U. Dev. Fund	500	-	-	-						
P.U. Medical Fee	175	-	175	-						
P.U.S.T.C/P.U.W.ST.C	500	-	500	-						
Sports Development & Swimming Pool Fee	200	-	200	-						
Sports Fund(PUTDSA)	200	-	200	-						
Students General Fund	125	-	125	-						
Services Total	8,550	5,425	8,300	6,675						
3.Utilities										
Electricity Charges	750	750	750	750						
P.U. Internet Facility	800	800	800	800						
Utilities Total	1,550	1,550	1,550	1,550						
4.Departmental Dues										
Departmental Dues	7,000	7,000	7,000	7,000						
Departmental Dues Total	7,000	7,000	7,000	7,000						
G. Total	55,400	52,275	55,150	53,525						

# Fee Structure for Ph.D

1.Fee	1st	2nd	3rd	4th	5th	6th	7th	8th
Admission Fee	300	300	-	-	-	-	-	-
Tuition Fee	3500	3500	3500	3500	3500	3500	3500	3500
Fee Total	3800	3800	3500	3500	3500	3500	3500	3500
2.Services								
Breakage Fee (Science Departments)	500	500	500	500	500	500	500	500
Bus Pass Charges	1650	1650	1650	1650	1650	1650	1650	1650
Examination Fee / Thesis*	3475	3475	-	-	-	-	-	-
Thesis Evaluation Fee*	6250	6250	6250	6250	6250	6250	6250	6250
Lib. Security	1000	-	-	-	-	-	-	-
Library Service	300	300	300	300	300	300	300	300
Mosque Maintenance Fund	50	-	50	-	50	-	50	-
P.U. Dev. Fund	500	-	-	-	-	-	-	-
P.U. Medical Fee	175	-	175	-	175	-	175	-
P.U.S.T.C/P.U.W.ST.C	500	-	500	-	500	-	500	-
Sports Development & Swimming Pool Fee	200	-	200	-	200	-	200	-
Sports Fund(PUTDSA)	200	-	200	-	200	-	200	-
Students General Fund	125	-	125	-	125	-	125	-
Services Total	14,925	12,175	9,950	8,700	9,950	8,700	9,950	8,700
3.Utilities								
Electricity Charges	750	750	750	750	750	750	750	750
P.U. Internet Facility	600	600	600	600	600	600	600	600
Utilities Total	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350
4.Departmental Dues								
Departmental Dues	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Departmental Dues Total	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
G. Total	30,075	27,325	24,800	23,550	24,800	23,550	24,800	23,550